SCS ENGINEERS



2016 Annual Monitoring Report

Island County Solid Waste Facility
20062 State Route 20
Coupeville, Washington

Presented to:

Island County
Department of Public Works
Solid Waste Division

PO Box 5000
Coupeville, Washington 98239-5000

Presented by:

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February 15, 2017
File No. 04207033.09
File Name: ICCSWF 2016 Annual Monitoring Report.0.1

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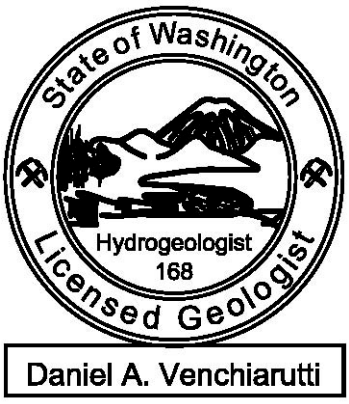
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1.0 INTRODUCTION

This Annual Report provides a summary of the field and laboratory results for the 2016 post-closure environmental monitoring activities conducted at the Island County Coupeville Solid Waste Facility (CSWF) located at 20062 State Route 20 in Coupeville, Washington. Environmental monitoring activities completed over the 2016 reporting period included sampling and analysis of groundwater (monitoring wells and nearby water supply wells), monitoring of landfill gas probes, and source control operations including stormwater collection and the management of landfill gas extraction wells. This work was conducted in accordance with the CSWF Groundwater Sampling and Analysis/Quality Assurance Plan (SAP/QAP) dated September 2007 and the Landfill Gas Monitoring Plan dated September 2002, modified in 2005 and 2008 (SCS Engineers).

In addition to the routine compliance monitoring program, six volatile organic compound (VOC) assessment wells were also sampled during 2016. Two of these wells (E9D and E10D) were installed near the downgradient (eastern) facility boundary this past summer/fall, and were initially sampled during the fourth quarter monitoring event. Data obtained from these additional wells has also been summarized in this report. The environmental monitoring and sampling activities over the 2016 reporting period were performed by SCS Engineers and SCS Field Services.

1.1 REPORT CONTENTS

The 2016 Annual Monitoring Report includes:

- Background and Site Description (including figures of site location and facility layout)
- A summary of the quarterly 2016 monitoring effort
  - Measurement of groundwater levels at 27 monitoring wells
  - Landfill gas (LFG) monitoring at
    - 15 subsurface perimeter probe locations (44 points)
    - 2 probe locations within onsite buildings (five points within the animal shelter on site and two points within the scale house)
  - Groundwater field measurements and sample collection at 30 monitoring and water supply wells
  - Groundwater field measurements and sample collection at six VOC assessment wells
- An evaluation and summary of the 2016 groundwater elevation/flow direction, field monitoring, and analytical data
- A summary of the 2016 LFG monitoring results
- A summary of the contaminant source control operation results

- A comparison and summary of 2016 analytical data to regulatory criteria
- A geochemical evaluation of recent (2016) groundwater conditions
- A summary of historical (previous 5 years) groundwater elevation, field monitoring, and analytical data
  - Groundwater hydrographs
  - Times series graphs for select analytes
  - Short and long term groundwater statistics
- Documentation of field monitoring and sampling activities from 2016
- A summary of analytical data validation and analytical laboratory data reports
- Recommendations developed from the evaluation of site conditions

1.2 SUMMARY OF RESULTS

1.2.1 Groundwater

Groundwater monitoring results for the 2016 compliance period remained generally consistent with those previously reported for the CSWF. Water quality within or immediately adjacent to the closed waste disposal areas continues to be influenced by elevated concentrations of several VOCs (primarily vinyl chloride), as well as certain inorganic compounds, general chemistry parameters, and field parameters. However, natural attenuation of the groundwater contamination observed at the CSWF appears to be continuing, with reduced concentrations of the primary landfill contaminants in downgradient monitoring wells situated 400 to 750 feet downgradient of the disposal areas.

Vinyl chloride continues to represent the contaminant of greatest concern, with groundwater exceedances being reported as far downgradient as Aquifer 2 monitoring well E4D (approximately 400 feet northeast from the edge of the disposal cells). Since 2013, four additional Aquifer 2 groundwater wells (E5D, E6D, E7D and E8D) have been monitored within the estimated contaminant plume downgradient (northeast) of well E2D, where the highest concentrations of vinyl chloride have been historically detected. In addition, groundwater samples collected from two newly installed Aquifer 2 "sentinel" wells (E9D and E10D) situated hydrologically downgradient of the observed vinyl chloride plume did not report detectable levels of VOCs (including vinyl chloride). The results corroborate the findings of past groundwater modelling efforts which concluded that vinyl chloride originating from the CSWF disposal cells is naturally attenuating beneath the facility, and that vinyl chloride has not, and will not in the future, migrate beyond County property.

Groundwater quality criteria for pH, specific conductivity, sulfate, total dissolved solids, total nitrate/nitrite, arsenic, iron, manganese, and vinyl chloride were exceeded in one or more wells during 2016. The WAC 173-200 groundwater criteria for vinyl chloride was exceeded in seven of the primary compliance monitoring wells (E1D, E2S, N2S, E4S, E2D, E4D and N2D) and

three of the VOC assessment wells (E6D, E7D and E8D) during the reporting period. These results are generally consistent with previous monitoring at the facility.

In addition to the typical suite of analytes (VOCs, inorganics, general chemistry, and field parameters), the groundwater samples from well E1S were also analyzed for herbicides. As originally noted in September 2002, the herbicide dicamba is present in monitoring well E1S. While there is no specific standard for dicamba under WAC 173-200, the detected concentration of dicamba continues to remain well below the estimated MTCA Method B cleanup goal. The concentration of dicamba in well E1S continues to decline over time. Concentrations have decreased from more than 200 microgram per liter (µg/L) in December 2002 to 1.8 µg/L in October 2016**.**

Landfill closure and source control activities continue to influence most temporal trends in chemical concentrations (both long term and short term, as identified by the statistical summaries and time series plots). Short term trends indicate that the majority of chemical concentrations in the groundwater are stabilized or are decreasing over the past several years. However, some exceptions to this overall trend have been noted. Increasing short term trends in concentration were observed for:

- Specific conductance in Aquifer 1 well NE1S, Aquifer 2 well NE1D and water supply well DOT.
- Total nitrate/nitrite in Aquifer 1 wells E2S and E4S and Aquifer 2 well E2D.
- Sulfate in Aquifer 1 wells N1SR and NE1S, Aquifer 2 wells E2D, N2D, N5D and W2S and water supply well S7.
- Arsenic in Aquifer 1 well E1S, Aquifer 2 well W1D and water supply well S7.

However, as illustrated on the time-series graphs provided in Appendix C, few of these short term increasing trends represent large concentration changes. In addition, several of the identified wells are situated up- or cross-gradient of the CSWF waste disposal cells.

Groundwater elevations at the site have been gradually increasing over the past five years. However, continued operation of the stormwater drainage and collection system appears to have partially mitigated this trend in the Aquifer 1 wells immediately next to the CSWF disposal areas. Groundwater flow directions within Aquifer 1 and Aquifer 2 remain consistently towards the east-northeast and north-northeast, respectively. The groundwater flow velocity in Aquifer 1 is estimated to be higher (1.31 to 134 ft/day) than in the Aquifer 2 (0.112 to 0.115 ft/day). An analysis of groundwater elevation and flow direction indicates the existing monitoring network remains adequate to assess impacts from the landfill and the progress of source control activities. As previously mentioned, two additional “sentinel” monitoring wells were installed and sampled this past fall along the eastern property border to address concerns raised by Island County Public Health. Evaluation of the Aquifer 2 groundwater flow paths confirms that these wells are situated hydrologically downgradient of the closed solid waste landfill.

1.2.2 Landfill Gas Probes

The gas probe monitoring results continue to indicate that LFG (represented by combined methane and carbon dioxide) remains present in the soils surrounding the landfill. Carbon dioxide was the predominant component of LFG detected during the 2016 monitoring events, and during recent historical monitoring events. In the absence of a landfill, under natural conditions, ambient air (nitrogen and oxygen) would be present as components of the soil gas. Depressed oxygen levels (less than the ambient concentration) were also detected in most gas probes during 2016, which is associated with the displacement of air by LFG.

Several low-level methane detections were reported in GP-S6D and GP-15 during the latter half of 2016. These detections appear to have been related to the intermittent operation of the LFG system through the middle of the year. These issues were fully addressed by November 2016, and further methane detections are not anticipated at these two probe locations.

LFG regulatory requirements only apply to the methane component due to its explosive and flammable nature. During the 2016 monitoring period, the facility remained in compliance with the regulatory threshold limits for methane in soils at the property boundary (less the 5 percent by volume) and inside of onsite structures (less than 1.25 percent by volume).

1.2.3 Contaminant Source Control Operations

Engineering controls aimed at reducing the source of contaminants to groundwater were implemented at the CSWF in 2005. These controls included stormwater collection from an upgraded drainage system at the interface of the CDL/MSW landfills. The stormwater drainage and collection system was designed to reduce infiltration into the CDL wastes and limit the potential production of leachate. The engineering controls also included an enhanced LFG control system featuring improved gas extraction from the refuse mass by adding vertical extraction wells, and the addition of a soil vapor extraction system to recover LFG from the vadose zone surrounding the landfill.

During 2016, a total of 17,264 gallons of stormwater runoff from the closed MSW landfill and CDL landfill covers was pumped from the collection system sump near monitoring well C1S and discharged to the infiltration pond west of the disposal areas. Cumulatively, a total of 213,689 gallons of stormwater has been diverted from this area since the fall of 2005. This stormwater previously infiltrated into the subsurface near the CDL disposal area and may have contributed to leachate generation from the CDL waste.

During May 2005, a series of in-refuse vertical extraction wells were installed and activated, while an earlier air injection system was de-activated. The air injection system was de-activated in conjunction with the gas extraction system installation because the gas extraction system allows for source control by removing gas through the extraction wells. Also, in November 2005, new soil vapor extraction wells began operation. Between November 22, 2005 and mid-December 2016, the LFG extraction system operated an average of 7.0 hours per day and the soil vapor extraction system operated an average of 11.62 hours per day.

These operational times are managed to balance extraction rates with the gas generation rate. Should extraction exceed gas generation rates, oxygen may be pulled into the landfill, which could create a fire hazard. Furthermore, drawing oxygen into the system prevents the gas treatment system (flare) from operating correctly. Excessive extraction of native soil gas could induce migration of landfill gases from the waste when LFG is not being extracted. LFG monitoring was conducted at approximately a 45-day interval during 2016.

The LFG extraction system appears to be successful in controlling gas generated within the refuse mass, thereby providing source control of landfill migration to the vadose zone, and the soil vapor extraction system appears to be successful in extracting LFG from the vadose zone thereby providing a degree of source control for groundwater contamination.

2.0 BACKGROUND AND SITE DESCRIPTION

Detailed information regarding the site layout and history as well as the hydrogeologic setting may be found in the Preliminary Hydrogeologic Study and Engineering Evaluation, prepared by SCS Engineers (January, 2002), as well as the Conceptual Model Summary Technical Memo, also prepared by SCS Engineers (January, 2004). The following is a summary of this information.

2.1 LOCATION AND OPERATIONAL HISTORY

The CSWF is located at 20062 SR-20, approximately 1.5 miles east of Coupeville, on Whidbey Island, Washington (Figure 1). The landfill-related features of the CSWF include two closed MSW disposal areas and one CDL debris disposal area that is currently inactive and covered with low-permeability soil. These waste disposal areas are referred to as follows:

- City MSW Landfill (1946 - 1977)
- County MSW Landfill (1971 - 1992)
- County CDL Landfill (1992 - 2002)

The City MSW Landfill operated (by the Town of Coupeville) as a burning dump from 1946 to 1969 and a landfill from 1969 to 1977. It occupies approximately 3 acres on the west side of the property. The depth of waste is estimated to be 10 to 20 feet deep based on waste disposal practices during that time period. Waste disposal quantities for the City MSW Landfill are not available. The City MSW Landfill has no liner system and the cover system consists of native soils with grass vegetation.

The County MSW Landfill operated from 1971 to 1992. It occupies approximately 11 acres on the south side of the property. The depth of waste is estimated to be 20 feet deep on the west half of the fill area and approximately 50 feet deep on the east half based on waste disposal practices and mining (quarry) activities. The County MSW Landfill has no liner system and the cover system consists of the following from top to bottom: grass vegetation, 6 inches of topsoil, 18 inches of drainage sand, composite 8 oz/yd^2 non-woven geotextile / 250 mil HDPE drainage net / 8 oz/yd^2 non-woven geotextile, 60 mil HDPE textured geomembrane, and 18 inches of foundation sand.

The County CDL Landfill operated from 1992 to 2002. It occupies approximately 4 acres immediately adjacent to the north side of the County MSW Landfill. A portion of the County CDL Landfill overlaps the north side of the County MSW Landfill. Waste is estimated to be up to 40 feet deep based on historical filling activities. The County CDL Landfill has no liner system and has a soil cover consisting of 12 inches of native soil (installed in 2002) and 12 inches of soil with high clay content (installed in 2004). The CDL Landfill accepted inert materials including uncontaminated soils, brick, concrete, sand, and glass, as well as other construction and land clearing debris, including some organic materials such as wood. Inspections by Island County Public Health suggest that small quantities of unacceptable materials may have been disposed of at this site.

The CSWF also includes an asbestos landfill situated in the north-central portion of the disposal area. In addition to landfilling, other features of the CSWF include a transfer station, a moderate risk waste handling station, a recycling collection area, a septage biosolids treatment plant, various county storage facilities, and an animal shelter. All of these facilities are situated on approximately 90 acres of land owned by the County. A site plan illustrating the general layout of the facility is presented on Figure 2.

2.2 TOPOGRAPHY AND CLIMATE

The site is situated on a wooded terrace, approximately one mile south of Penn Cove. Although the ground surface comprising the developed areas of the property remains level, the site lies in the vicinity of several large glacial kettle depressions. The elevation of the facility is approximately 200 feet above mean sea level.

Site climate is characterized by cool, moist winters and dry, warm summers which are characteristic of the Puget Sound Lowlands. Temperature extremes are moderate due to maritime influences from the adjacent Puget Sound, Strait of Juan de Fuca, and nearby Pacific Ocean. Precipitation is typically less than most areas in the Puget Sound region due to the site's location relative to the leeward side of the Olympic Mountains, which generate a rain shadow effect. The site receives an average annual rainfall of just over 21 inches, according to historical records.

2.3 LOCAL AND REGIONAL HYDROGEOLOGY

The Preliminary Hydrogeologic Study and Engineering Evaluation completed by SCS (January, 2002) identified three water-bearing zones and two confining (or semi-confining) layers beneath the CSWF. Regionally, groundwater flow in the upper aquifer was reported to generally trend toward the east-northeast. Groundwater in the deeper aquifer appears to flow in a more north-northeasterly direction. South of the site, the regional groundwater flow direction has a southeasterly component. Groundwater flow beneath the site likely has a vertical component, with water moving from shallowest to deepest zones across the semi-confining layers. The difference in hydraulic head between the upper and lower aquifers beneath the site is reported to be approximately 12 feet.

3.0 GROUNDWATER

Quarterly groundwater monitoring at the Island County Solid Waste Facility commenced in 1985. Groundwater monitoring has included both monitoring wells (constructed specifically for groundwater monitoring) and nearby small-scale water supply wells. Since its inception, the groundwater monitoring program has evolved to include monitoring locations (both on and off site), as well as an expanded parameter suite. All the groundwater monitoring wells on the CSWF property are outfitted with dedicated low-flow sampling pumps.

The groundwater monitoring network includes ten locations with paired shallow and deep monitoring wells, five single completion monitoring wells (three shallow, two deep), and five water supply wells. Well W1D is also included in the groundwater monitoring network. It was formerly paired with a shallow monitoring well (W1S) that is not currently being monitored due to an insufficient amount of water in the well for sampling. Well N4S is monitored for water levels only. Replacement well N1SR was installed in November 2005; however, this well appears to be completed in a perched zone which may not be hydraulically connected (at least directly) with the groundwater monitored by other wells at the site. In addition, four new groundwater monitoring wells were installed in 2013 to assess VOC levels (primarily for vinyl chloride) in the deeper aquifer to the northeast (downgradient) of the landfill. Two additional deep aquifer wells were installed along the eastern facility border during 2016 to confirm that VOCs (primarily vinyl chloride) were not migrating off County-owned property. The locations of the CSWF groundwater monitoring wells and pumping wells are depicted on Figure 2.

A summary of the monitoring wells and their positions within the monitoring well network is provided in the table below and illustrated on Figure 2.

2016 CSWF Groundwater Monitoring Well Network (Installation Year)			
Aquifer 1 Wells	**Aquifer 2 Wells**	**Pumping Wells**	**VOC Assessment Wells (Aquifer 2)**
C1S (2002)	E2D (1997)	DNR (1964)	E5D (2013)
E1D (1997)	E3D (2001)	WRI (1976)	E6D (2013)
E1S (1997)	E4D (2008)	S7 (1979)	E7D (2013)
E2S (1997)	N1D (1997)	DOT (1981)	E8D (2013)
E4S (2008)	N2D (1997)	STP (1993)	E9D (2016)
N1SR (2005)	N3D (1997)		E10D (2016)
N2S (1997)	N5D (2002)		
N3S (1997)	N5S (2002)		
NE1S (2002)	NE1D (2002)		
S10S (2003)	S11D (2003)		
S11S (2003)	W1D (1997)		
SE1D (2003)	W2S (2002)		
SE1S (2002)			

Groundwater monitoring was performed by SCS Engineers during January, April, July, and October of 2016.

3.1 MONITORING ACTIVITIES

3.1.1 Water Level Measurements

Static groundwater level measurements were collected at the monitoring wells at the CSWF each quarter during the reporting period. Depths to water measurements (to the nearest 0.01 ft.) were obtained using an electronic water level indicator. Measurement results were recorded on field sampling logs and the resulting data were subsequently used to calculate quarterly groundwater elevations for each well location.

3.1.2 Sample Collection and Analysis

Groundwater samples were collected in January, April, July, and October from the locations depicted on Figure 2.

Monitoring wells were sampled using the dedicated low-flow sampling procedure outlined in the SAP/QAP. Each monitoring well is outfitted with a dedicated bladder pump. Purging was completed at flow rates of less than 500 milliliters per min (ml/min) until indicator parameters (pH, temperature, specific conductance, turbidity, and dissolved oxygen) stabilized according to the criteria stated in the SAP/QAP. Indicator parameters (except turbidity) were measured with a closed in-line flow-through cell to prevent atmospheric influences. Turbidity measurements were taken using a field-portable turbidity meter. After parameter stabilization, the flow-through cell was disconnected. Samples were collected directly from the pump discharge line (to prevent cross-contamination) by filling laboratory-prepared sample bottles. Specific sampling procedures are outlined in the SAP/QAP.

Water supply well samples were collected from the surface tap. The sampling taps at all water supply wells are situated at the wellhead surface immediately before the pressure tank and other appurtenances. The tap was allowed to discharge until the pump came on (verifying that the water being sampled came from the well and not a storage or pressure tank) and indicator parameters were allowed to stabilize according to the same criteria used for monitoring well sampling. After indicator parameters stabilized, the flow splitter was removed and samples were collected directly from the sampling tap at flow rates of approximately 500 ml/min. Specific sampling procedures are outlined in the SAP/QAP.

It should be noted that the objective of purging a pumping water supply well is the same as with a monitoring well: to ultimately collect a sample representative of the groundwater in the aquifer rather than water in the well (or plumbing system). However, it should be recognized that data obtained from water supply wells may not be directly comparable to that obtained from the monitoring wells due to the differences in well construction and sampling method. Concentration averaging is also likely to occur from differences in the screen length and pumping rate for the water supply wells. The purpose of this sampling is simply to assess the quality of water at the water supply wells to verify usability of the water.

Groundwater samples were packed in coolers containing ice, stored, and transported under chain-of-custody protocols to Test America Laboratories (Test America) in Fife, Washington. Laboratory analytical data results were delivered to SCS Engineers in electronic formats.

The SAP/QAP calls for analyses of:

- Total dissolved solids by SM 2540C
- Chemical oxygen demand (COD) by SM 5220C
- Total organic carbon (TOC) by SM5310B
- Total alkalinity and bicarbonate alkalinity by SM 2320B
- Anions (sulfate and chloride) by method 300.0
- Total nitrate/nitrite and ammonia by SM 4500
- Metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, nickel, selenium, silver, thallium, vanadium, zinc, manganese, and lead by method 6020A; iron, calcium, magnesium, potassium and sodium by method 6010B
- Volatile organic compounds (VOCs) by method 8260B/8260SIM (or equivalent)
- Herbicides by method 8151A (Well E1S only)

The SAP/QAP also calls for field Quality Assurance/Quality Control (QA/QC) samples, including collection of one duplicate sample and one field blank each quarter.

3.2 RESULTS

3.2.1 Groundwater Elevations

Groundwater elevations in the Aquifer 1 (shallow aquifer) over the 2016 reporting year ranged between 63.31 (NE1S in January) to 85.70 (W1S in October) feet above mean sea level (msl) with the exception of well N1SR which has historically exhibited higher groundwater elevations. During 2016, groundwater elevations at well N1SR ranged between 100.29 and 103.09 feet msl. As noted in past annual reports, shallow wells N1SR and N4S appear to represent locally perched water above Aquifer 1.

Groundwater elevations observed during the 2016 reporting period in Aquifer 2 (deep aquifer) ranged from 49.32 (NE1D in January) to 58.51 (S11D in October) feet above msl. With the exception of perched wells N4S and N1SR, groundwater elevations at the CSWF do not appear to show strong seasonal fluctuations in response to changes in precipitation recharge. Depth-to-water measurements and calculated groundwater level elevations from the CSWF monitoring wells completed in Aquifer 1 and Aquifer 2 are presented in Tables 1A and 1B, respectively. Hydrographs of the CSWF groundwater elevations are provided for Aquifer 1, the perched water zone, and Aquifer 2 on Figures 3 through 5, respectively.

As illustrated on Figures 3 through 5, groundwater elevations at the CSWF have been slowly rising in both Aquifer 1 and Aquifer 2 over the past five years. Barring a few anomalous elevation values (likely due to inaccurate field measurement), the observed 5-year increasing elevation trends generally remain within the 0.5 to 3 feet range depending on well location. Perched groundwater elevations in wells N4S and N1SR show no apparent 5 year trends, but do demonstrate greater seasonal variation.

Groundwater surface elevation maps were prepared (refer to Figures 6A/B, 7A/B, 8A/B, and 9A/B) for Aquifer 1 and Aquifer 2. These figures display the potentiometric surfaces and general groundwater flow directions observed during each quarter of 2016. Little change was observed in the flow direction over the course of the 2016 compliance period.

The groundwater elevation surface maps for Aquifer 1 (Figures 6A, 7A, 8A, and 9A) depict a generally easterly flow direction. The average hydraulic gradient for Aquifer 1 remained consistent from quarter to quarter. The calculated gradient for Aquifer 1 ranged from 0.0149 to 0.0152 feet/feet for the 2016 monitoring events. Assuming an effective porosity of 25 percent and an average hydraulic conductivity of 22.0 feet/day (as determined from grain size analysis of the sandy soils found in the screened intervals of wells NE1S, S10S, and SE1S), the groundwater flow velocity during 2016 in Aquifer 1 was calculated to range between 1.31 and 1.34 feet/day.

The groundwater elevation surface maps for Aquifer 2 (Figures 6B, 7B, 8B, and 9B) depict a flow direction to the north-northeast. The average hydraulic gradient for Aquifer 2 ranged between 0.0039 to 0.0040 feet/feet during the reporting period. Assuming an effective porosity of 33 percent and an average hydraulic conductivity of 9.40 feet/day (determined from grain size analysis of the sandy soils found in the screened intervals of landfill wells NE1D, N5D, and S11D), the groundwater flow velocity during 2016 in Aquifer 2 was estimated to range between 0.112 and 0.115 feet/day.

Water supply well water levels were not measured and are not reported because water levels cannot be guaranteed to be representative of static conditions (due to unknown pumping schedules).

3.2.2 Water Quality

Measurement of field parameters and results from laboratory analyses for field parameters general chemistry, metals, and herbicides (E1S only) for 2016 are presented in Tables 2A through 2C. Results from laboratory analyses for VOCs are presented in Tables 3A through 3C. In addition, VOC results obtained during the reporting period from the six new assessment wells (E5D though E10D) installed between 2013 and 2016 are summarized on Table 4. A summary of VOC detections is also provided in Table 5. Field documentation for the 2016 groundwater monitoring events is presented in Appendix A.

3.2.2.1 Field Parameters

Field parameters results for the 2016 compliance period are summarized below.

Dissolved oxygen (DO) measurements recorded at the CSWF ranged from 0.18 to 7.2 milligrams per liter (mg/L) during 2016. Aquifer 1 and Aquifer 2 wells reported similar DO ranges (0.18 to 6.4 mg/L and 0.34 to 7.2 mg/L. respectfully). The water supply wells reported a DO range of 1.0 to 4.9 mg/L.

Oxidation-reduction potential (ORP) measurements varied widely across the site ranging from negative (-) 208 to positive 181 millivolts (mV) over the reporting year. In general, lower (negative) ORP values were more commonly associated with wells situated near or downgradient of the waste disposal cells. Water supply wells reported an ORP range of -208 to 163 mV.

The **pH** values recorded in the Aquifer 1 and Aquifer 2 during 2016 ranged between 5.9 to 8.4 standard units (SU). Water supply wells reported pH results ranging between 6.9 and 8.8 SU during the reporting year. It should be noted that pH field measurements are most commonly reported within the 6.4 to 7.8 SU range, and that the majority of outlier results are suspected to be related to inconsistent meter performance.

Specific conductivity (SC) measured at the CSWF ranged between 405 and 1,795 microSiemens per centimeter (µS/cm). Aquifer 1 and Aquifer 2 wells reported generally similar SC measurements ranging between 405 to 1,700 µS/cm and 547 to 1,795 µS/cm, respectively. The water supply wells reported a SC range of 511 to 861 µS/cm.

Temperature measurements ranged from 6.8 °C to 21.7 °C in the groundwater samples collected over the reporting period. The most elevated temperatures were typically recorded at the water supply wells sampled during the July event, while the coolest temperatures were generally noted during the January event. The recorded temperature values are largely interpreted as a function of changes in the ambient air temperature during sampling, and are not anticipated to represent in situ groundwater temperatures.

Field measurements of groundwater **turbidity** recorded during 2016 remained generally low in the Aquifer 1 and Aquifer 2 wells, ranging from 0.54 to 13.7 Nephelometric Turbidity Units (NTU). The water supply wells reported a wider range of turbidity from 0.70 to 135.1 NTU. Water supply well STP consistently reported the most elevated turbidity results.

3.2.2.2 General Chemistry

The 2016 results for the general chemistry parameters are summarized below.

Total Alkalinity at the CSWF is principally comprised of bicarbonate (HCO_3). During the reporting year, total alkalinity varied between 180 and 910 mg/L. Aquifer 1 alkalinity ranged from 180 to 860 mg/L, while Aquifer 2 alkalinity ranged from 220 (E4D during April and October) to 910 mg/L (E2D during January). The water supply wells reported an alkalinity range of 210 to 340 mg/L.

Ammonia was detected in several Aquifer 1 and Aquifer 2 monitoring wells at concentrations ranging between <0.2 (most wells) to 0.51 mg/L (E4S during April). Well S7 (0.46 mg/L during July) was the only water supply well that reported detectable ammonia during 2016.

Calcium detections in the Aquifer 1 and Aquifer 2 wells ranged from 33 mg/L (N1SR in April) to 240 mg/L (E2D in January). Calcium detections in the water supply wells remained generally lower, ranging between 37 and 81 mg/L.

Chemical Oxygen Demand (COD) ranged between <10 and 20 mg/L in Aquifer 1 and Aquifer 2 wells in 2016, with the majority of wells reporting non-detects for this parameter. No COD detections were reported in the water supply wells over the same period.

Chloride concentrations ranged between 4.6 and 170 mg/L. Aquifer 1 chloride levels varied between 4.6 and 110 mg/L. Aquifer 2 chloride levels ranged from 27 to 170 mg/L. Water supply wells reported chloride concentrations ranging from 21 to 62 mg/L. The 250 mg/L groundwater quality criterion for chloride was not exceeded at the CSWF during the 2016 compliance year.

Fluoride levels reported at the CSWF during 2016 were low across the site ranging between 0.10 and 0.90 mg/L, with the sole exception of an anomalous result in Aquifer 2 well E2D (1.3 mg/L during October).

Magnesium concentrations over the reporting year in Aquifer 1 ranged between 31 and 120 mg/L. Aquifer 2 reported slightly lower magnesium levels from 24 to 110 mg/L. The water supply wells reported magnesium concentrations ranging between 29 to 58 mg/L.

Potassium concentrations ranged from 5.3 to 9.7 mg/L in Aquifer 1 over the reporting period. Aquifer 2 potassium levels were similar, ranging between 4.1 and 11 mg/L. The water supply wells reported potassium concentrations ranging from 5.4 to 12 mg/L.

Sodium levels were generally highest in the Aquifer 2 wells, ranging between 20 and 50 mg/L. Aquifer 1 reported sodium concentrations between 11 and 49 mg/L. Sodium levels in the water supply wells ranged between 19 and 33 mg/L.

Sulfate concentrations during the reporting period ranged between 7.7 and 350 mg/L. Well C1S typically reported the highest sulfate levels (200 to 350 mg/L) at the site. Aquifer 1 sulfate concentrations in the remaining wells varied between 14 and 130 mg/L. Aquifer 2 sulfate levels ranged from 11 to 190 mg/L. The water supply wells reported sulfate concentrations ranging between 7.7 and 44 mg/L. The 250 mg/L sulfate groundwater quality criterion was only exceeded in Well C1S (during January, April and July) during the reporting year.

Total dissolved solids (TDS) was detected at concentrations ranging between 260 (N1SR during January) and 1,100 mg/L (C1S and E2D in July and April, respectively) during the reporting period. Aquifer 1 and Aquifer 2 wells reported similar TDS ranges (260 to 1,100 mg/L and 320 to 1,100 mg/L. respectfully). The water supply wells detected lower TDS concentrations, ranging between 290 and 510 mg/L.

Nitrate/Nitrite was reported at the CSWF at concentrations ranging between 0.05 and 46.0 mg/L. The greatest range of nitrate/nitrite levels was observed in the Aquifer 1 wells, ranging from 0.08 to 46.0 mg/L. Nitrate/nitrite was most elevated in well S10S (42 to 46 mg/L, but routinely exceeded 5 mg/L in eight of the Aquifer 1 wells. Aquifer 2 and the water supply wells

reported significantly lower nitrate/nitrite concentrations, ranging from 0.05 to 4.3 mg/L and 0.27 to 1.4 mg/L. respectfully. The 10 mg/L groundwater quality criterion was exceeded in two Aquifer 2 wells (S10S and E1S) during the reporting year. However, these elevated nitrate/nitrite detections are suspected to be related to non-landfill sources.

Total organic carbon (TOC) ranged from 1.1 to 9.6 mg/L in the Aquifer 1 wells during the reporting year. Aquifer 2 reported TOC levels that ranged from 1.0 to 4.4 mg/L, while the water supply wells reported TOC results ranging from 1.0 to 2.1 mg/L.

3.2.2.3 Metals

Metals results for the 2016 reporting year are summarized below. A total of eight metals, including antimony, beryllium, cadmium, lead, selenium, silver, thallium and vanadium, were either not detected or only sporadically reported above their respective laboratory reporting limits. Accordingly, these eight metals have been excluded from the discussion below.

Arsenic concentrations during the 2016 ranged between 0.00015 and 0.058 mg/L. Aquifer 1 arsenic concentrations varied from 0.0015 to 0.013 mg/L. Aquifer 2 arsenic levels ranged between 0.0022 and 0.016 mg/L. The water supply wells reported arsenic concentrations ranging between 0.0034 and 0.058 mg/L. The highest arsenic detections contained to be reported in water supply well STP.

Barium concentrations ranged from 0.014 to 0.12 mg/L. The Aquifer 1 and water supply wells reported a similar range of barium concentrations (0.014 to 0.066 mg/L and 0.022 to 0.062 mg/L, respectfully). Aquifer 2 reported slightly higher barium levels that ranged between 0.022 and 0.12 mg/L.

Chromium was reported at the CSWF at concentrations that ranged between 0.0004 and 0.014 mg/L. Aquifer 1 chromium levels varied between 0.00042 and 0.014 mg/L. Chromium in Aquifer 2 wells ranged from 0.0004 to 0.0027 mg/L. The water supply wells reported chromium ranging between 0.00043 and 0.0041 mg/L

Cobalt was sporadically reported in several Aquifer 1 wells during 2016 at concentrations ranging from 0.0007 to 0.0011 mg/L. Cobalt was not detected in any of the Aquifer 2 or water supply wells.

Copper was reported at concentrations that ranged from 0.0023 to 0.29 mg/L during 2016. Aquifer 1 and Aquifer 2 wells reported similar copper ranges (0.0026 to 0.0091 mg/L and 0.0023 to 0.0075 mg/L, respectfully). The water supply wells reported a greater range of copper detections from 0.0024 to 0.29 mg/L. The highest copper levels were once again noted in well STP.

Iron concentrations were detected from 0.3 to 1.3 mg/L. Iron was not reported in any of the Aquifer 1 wells during the year. Three Aquifer 2 wells (S11D in July, N2D in October and N1D in all quarters) reported iron levels in excess of the 0.3 mg/L groundwater quality criterion. Two water supply wells (DNR and STP) reported detectable iron concentrations during 2016.

Manganese detections ranged between 0.02 and 0.38 mg/L over the reporting period. Aquifer 1 manganese concentrations varied between 0.039 and 0.38 mg/L. Aquifer 2 manganese levels ranged from 0.02 to 0.29 mg/L. Water supply wells reported manganese concentrations ranging between 0.081 and 0.14 mg/L. The highest manganese levels were noted in well E2S.

Nickel was reported at concentrations that ranged from 0.003 to 0.017 mg/L during the year. Although nickel was only sporadically detected in the Aquifer 2 and water supply wells, the highest nickel detection of 2016 occurred in N1D (0.017 mg/L during October). Low nickel concentrations were more commonly reported Aquifer 1 wells ranging between 0.003 and 0.0099 mg/L).

Zinc was sporadically detected in Aquifer 1 wells at concentrations ranging between 0.0076 to 0.028 mg/L. Aquifer 2 wells did not report detectable zinc during the compliance year. Zinc detections in the water supply wells ranged between 0.021 to 2.6 mg/L, with the highest zinc levels being reported in wells STP and S7.

3.2.2.4 Volatile Organic Compounds

Tables 4 and 5 presents a summary of the volatile organic compounds that were detected during 2016 in the routinely monitored groundwater wells and the additional VOC assessment wells. It should be noted that this list includes some values flagged as "J", or estimated. This means the analyte concentration is below the practical quantitation limit (above which the laboratory can reliably quantify the concentration) or has other analytical uncertainty resulting in an estimated concentration.

A total of eleven (11) VOCs were detected in groundwater samples collected from CSWF Aquifer 1 and Aquifer 2 monitoring wells during 2016. A summary of the detected VOCs is provided in Table 5. The following compounds were detected at least once at the CSWF:

- 1,1,1–trichloroethane
- 1,1-dichloroethane
- 1,1-dichloroethylene
- carbon disulfide
- chloroform
- cis-1,2-dichloroethene (C1S only)
- methylene chloride
- trichloroethylene (C1S only)
- trichlorofluoromethane
- m,p-xylene (N3S only)
- vinyl chloride

Three of the above listed VOCs (cis-1,2-dichloroethene, trichloroethylene and m,p-xylene) were only sporadically detected in a single site monitoring well, and at low concentrations near the method detection limit.

During 2016, **1,1,1-trichloroethane** was reported in six wells (C1S, E1S, N2S, E2D, E7D, and S10S) at concentrations ranging between 0.23 and 1.1 µg/L.

1,1-dichloroethane was detected in two monitoring wells (N2S and E7D) at concentrations ranging between 0.59 and 2.8 µg/L. Downgradient Aquifer 2 well E7D reported the highest concentrations of this parameter.

1,1-dichloroethylene was reported in wells C1S and E7D at concentrations ranging between 0.14 and 3.0 µg/L. It should be noted that several of these results were associated with similar detections in the laboratory's method blank.

Carbon disulfide was detected in wells E4D, E6D, and E7D and water supply well STP at concentrations ranging between 0.20 and 0.37 µg/L.

Chloroform was reported in wells S10S and E7D at concentrations ranging between 0.21 and 0.29 µg/L.

The compound **cis-1,2-dichloroethene** was detected at well C1S during all four 2016 monitoring events at concentrations ranging between 0.37 and 0.5 µg/L.

Methylene chloride was detected in well E2D and E7D during most of the 2016 monitoring events, at concentrations ranging between 0.59 and 0.92 µg/L. Methylene chloride was also reported in water supply wells DNR, DOT and STP during October at concentrations ranging from 0.52 to 0.7 µg/L.

Trichloroethylene was also detected at well C1S during all four 2016 monitoring events at concentrations ranging between 0.21 and 0.27 µg/L.

Trichlorofluoromethane was detected at nine locations during 2016; including six Aquifer 1 wells (C1S, E1S, E2S, N2S, N3S, and S10S) and three Aquifer 2 wells (E2D, E7D and N2D). Concentrations of this compound ranged from 1.0 to 79 µg/L over the course of the reporting period. The most elevated trichlorofluoromethane levels occurred in downgradient well E7D (ranging from 62 to 79 µg/L).

Vinyl chloride is the primary constituent of concern that has been detected above applicable regulatory standards at the CSWF. Vinyl chloride was detected in five Aquifer 1 wells (E1D, E2S, E4S, N2S and S10S) and seven deep Aquifer 2 wells (E2D, E4D, E6D, E7D, E8D, N2D, and N5D) during the reporting period. The majority of these wells are located within or immediately adjacent to the disposal areas. Vinyl chloride concentrations ranged between 0.021 to 28 µg/L during 2016. The highest vinyl chloride concentrations were detected in wells E2D (ranging from 20 to 28 µg/L) and E7D (ranging from 4.5 to 8.5 µg/L).

It should also be noted that the two downgradient "sentinel wells" (E9D and E10D), which were installed during August 2016 near the downgradient facility border and were subsequently sampled in conjunction with the fourth quarter, did not report any detectable VOCs, including vinyl chloride.

3.2.2.5 Herbicides

Groundwater samples collected from monitoring well E1S were analyzed for herbicides during 2016. Low levels of dicamba were detected in this well during each quarterly monitoring event, ranging from 1.6 µg/L (in July) to 3.2 µg/L (during January). While there are no specific standards for dicamba under WAC 173-200, the reported concentration of dicamba in E1S continues to remain well below the 480 µg/L MTCA Method B cleanup goal.

3.2.2.6 Groundwater Data QA/QC

All analytical data reported by the primary testing laboratory (TestAmerica, Fife, WA) during 2016 was subjected to QA/QC evaluations. The QA/QC evaluations were performed as outlined in the SAP/QAP, and included the collection and analysis of field duplicates and trip blanks. The QA/QC evaluation also included a detailed review of the laboratory data, including sample handling, holding times, and laboratory performance analyses including duplicates, blanks, matrix spikes, matrix spike duplicates and surrogate recoveries.

Data quality issues were not identified in the majority of the analytical data sets reported during the current reporting period. However, several anomalies were noted during 2016, including TestAmerica reporting that their national data network was the target of a cyber-attack during February, which necessitated the shutdown and rebooting of a significant percentage of their analytical equipment during the middle of the month. The laboratory was able to restore full service for the first quarter CSWF analytical workload, but TOC had to be re-analyzed one day outside the 28 day holding time. In addition, due to an internal calibration issue, TestAmerica subcontracted the EPA method 8260 analyses for vinyl chloride to Onsite Environmental, Inc. (OnSite) for the fourth quarter sample set to ensure that the desired reporting limit would be achieved. Data flags have been appended to the 2016 testing results as appropriate. All the data were determined to be acceptable for the intended purposes. Appendix B contains the data validation reports and the laboratory data packages for the reporting year.

It should also be noted that at the request of the Island County Health Department, the split samples from eight CSWF monitoring wells were submitted to Edge Analytical Laboratories (Edge) for low level vinyl chloride analysis during each of the 2016 quarterly monitoring events. The results of the spilt sampling has been documented in separate quarterly reports that have been issued to the regulatory agencies. As discussed in these reports, it remains our professional opinion that the data presented by TestAmerica and Onsite Environmental demonstrates greater quality control and are more representative of actual site conditions.

3.2.3 Groundwater Quality Criteria Comparison

All analytical results were compared to the water quality criteria for groundwaters of the state of Washington (Chapter 173-200 WAC) and to Federal primary and secondary MCLs. A summary of WAC 173-200 criteria and Federal MCL exceedances for the 2016 reporting year can be found on Table 6. Water Quality criteria for the following nine analytes were exceeded:

- pH
- specific conductivity
- sulfate (C1S only)
- total dissolved solids
- total nitrate/nitrite
- arsenic
- iron
- manganese
- vinyl chloride

The WAC 173-200 criterion and secondary MCL for **pH** (<6.5 or <8.5 SU) was exceeded at four Aquifer 1 wells (C1S, N1SR, N2S and S10S), one Aquifer 2 well (E2D) and one water supply well (STP) during the reporting period.

The secondary Federal MCL for **specific conductivity** (700 micro Siemens per centimeter, µS/cm) was exceeded at a majority of the wells during multiple sampling events.

The WAC 173-200 criterion and secondary MCL for **sulfate** (250 mg/L) was exceeded three times during 2016 in Aquifer 1 well C1S.

The WAC 173-200 criterion and secondary MCL for **total dissolved solids** (500 mg/L) was exceeded at least once during the reporting year in 19 wells, including 11 Aquifer 1 wells, seven Aquifer 2 wells and one water supply well (WR1). While some of the exceedances at monitoring wells are almost certainly due to effects from the waste disposal activities, many of the exceedances are thought to be due to natural water quality. Total dissolved solids concentrations on the order of 500-800 mg/L are routinely observed for groundwater throughout the central portion of Island County.

The WAC 173-200 criterion and primary MCL for **total nitrate/nitrite** (10 mg/L) was exceeded in each of the monitoring events in shallow aquifer monitoring wells S10S (located immediately south of the disposal areas and east of the animal shelter) and E1S (located adjacent to the disposal area). These elevated detections do not appear to be related to the waste disposal cells.

The WAC 173-200 groundwater quality criterion for **arsenic** (0.00005 mg/L) was exceeded at least once during the 2016 reporting period in all 30 of the groundwater monitoring and water supply wells monitored for this parameter. The primary MCL of 0.01 mg/L was exceeded during all four quarters in the samples collected from Aquifer 1 well SE1D, Aquifer 2 well E4D and water supply well STP.

Iron concentrations exceeded the WAC 173-200 criterion and secondary MCL of 0.3 mg/L at least once during the reporting year in three Aquifer 2 wells (N1D, N2D and S11D) and two water supply wells (DNR and STP).

Manganese concentrations exceeded the WAC 173-200 criterion and secondary MCL of 0.05 mg/L during the reporting year in 14 wells, including four Aquifer 1 wells, seven Aquifer 2 wells and three water supply wells.

The WAC 173-200 groundwater criterion (0.02 µg/L) for **vinyl chloride** was exceeded in seven of the primary CSWF wells during the reporting period; including: four Aquifer 1 wells (E1D, E2S, E4S and N2S) and three Aquifer 2 wells (E2D, E4D and N2D). Vinyl chloride also routinely exceeded its groundwater criterion in two of the VOC assessment wells (E6D and E7D) during 2016. Vinyl chloride was not detected in any of the water supply wells during the reporting period.

3.3 EVALUATION OF GROUNDWATER QUALITY

3.3.1 Spatial Distribution

The groundwater analytical and field parameter data reflect the influence of the waste disposal activities on groundwater quality at the CSWF. As previously reported, wells within or immediately adjacent to the disposal area continue to report elevated concentrations relative to background conditions of the following parameters of interest:

- specific conductivity
- nitrate/nitrite
- sulfate
- total dissolved solids
- arsenic
- iron
- manganese
- vinyl chloride

These elevated parameter concentrations typically occur within or immediately adjacent to the unlined waste disposal cells (either due to leaching from the landfill, LFG, or simply mobilization due the landfill's presence). As previously reported for this site, the migration of these contaminants appears to be attenuating beneath the facility, as evidenced by the reduced concentrations of target analytes at monitoring wells located 400 to 750 feet downgradient of the disposal areas. Groundwater quality impacts are generally more pronounced in the shallow aquifer wells than in the deep aquifer wells. The primary exception to this statement is found in deep aquifer wells E2D and E7D, which contain elevated concentrations of vinyl chloride among other constituents. Overall, the 2016 analytical results remain similar to those reported during previous monitoring years.

However, it is interesting to note that vinyl chloride levels in these same wells appear to be gradually declining when compared to previous year's results. In addition, groundwater samples recently collected from downgradient wells E9D and E10D did not report the presence of any VOCs, including vinyl chloride. These results confirm that site contaminants remain confined to the County property.

3.3.2 Temporal Trends

A statistical analysis of parameters exceeding groundwater quality criteria (specific conductivity, total nitrate/nitrite, sulfate, TDS, arsenic, iron, manganese, and vinyl chloride) was performed for both short (most recent two years) and long (all available data) term data trends. A summary of statistical parameters and the Mann-Kendall Trend analysis for these eight parameters can be found in Table 7. In addition, time series diagrams (covering the last 5-years) for additional selected parameters of interest are provided in Appendix C. These analyses were performed using AquaChem (ver. 2014.1) software and modules of Microsoft Excel (ver. 2010).

As noted in previously reports, both increasing and decreasing long-term trends have been documented for these parameters throughout the CSWF. However, fewer short-term statistically significant trends are observed for the same Aquifer 1, Aquifer 2 and the water supply (WS) wells, as summarized in the following table.

Summary of Short-Term (2015-2016) Concentration Trends			
Parameter	**Aquifer Type**	**Wells with Increasing Trends**	**Wells with Decreasing Trends**
Specific Conductance	1	NE1S	None
	2	NE1D	None
	WS	DOT	None
Nitrate/Nitrite, total	1	E2S, E4S	EID
	2	E2D	None
	WS	None	None
Sulfate	1	N1SR, NE1S	None
	2	E2D, N2D, N5D, W2S	None
	WS	S7	None
TDS	1	None	E2S, N3S
	2	None	None
	WS	None	DNR
Arsenic	1	E1S	None
	2	W1D	None
	WS	S7	None
Iron	1	None	None
	2	None	E4D, N3D, W1D
	WS	None	DOT
Manganese	1	None	None
	2	None	N3D
	WS	None	None
Vinyl chloride (not detected in WS wells)	1	None	S10D
	2	None	None

These short-term (2 year) trends are also discernable in the 5-year time series diagrams attached to Appendix C. As illustrated by these time-series charts, few of the observed short term increasing trends show large concentration changes. In addition, several of the identified wells are situated either upgradient (N1SR, W1S, and W1D) or cross-gradient (NE1S, E1S and S7) of the CSWF waste disposal cells.

3.3.3 Groundwater Geochemistry

The geochemical character of groundwater for Aquifer 1, Aquifer 2 and the water supply wells was evaluated for the each of the 2016 monitoring events using the Piper diagrams and cation/anion balance tables attached to Appendix C. As illustrated on the Piper diagrams, the water samples obtained from Aquifer 1, Aquifer 2 and water supply wells generally show similar geochemical signatures. As noted during past monitoring cycles, the positions of samples on these diagrams indicate that the dominant anion in the groundwater samples continues to be bicarbonate, while the cations are still dominated by calcium and magnesium.

Groundwater cation/anion balance calculations were also used to assess the geochemical character of the water samples. Ideally, after the major anions and cations present in a sample are determined, the sum of the positive cations (in milliequivalents per liter [meq/L]) should

approximately equal the sum of the negative anions (Hem 1986). All natural waters should be electroneutral; however, differences can arise between dissolved cations and anions in groundwater as measured by an analytical laboratory due to a number of factors including: presence of colloidal fractions, systematic error in preparation and analysis of samples, malfunction of/poorly calibrated equipment, major species omitted from analysis, the presence of unusually high concentrations of cations/anions, and not all ions present in water are included in the balance calculation. Due to these potential issues, differences in the ion balance can be difficult to assess for imbalances due to groundwater impacts.

The range of the sum of ions and balance of ions observed at the CSWF during the 2016 compliance period generally reported relative percent differences (RPD) less than (+/-) five percent. Positive values indicate that the sum of the cations is greater than the sum of the anions. During the 2016 reporting period, four groundwater samples (N1SR, S10S and W2R in January and S10S in April) reported RPDs slightly outside (+/-) ten percent. Ion balances outside a ten percent RPD threshold may be due to possible errors associated with analytical limitations in the measurements (as previously discussed) or potential low level impact from human activities at the site.

4.0 LANDFILL GAS

In 1988, a LFG migration control system, consisting of a perimeter air injection system (along the south, east, and west edge of the property) was installed at the Landfill, refer to Figure 10. The gas migration control system was deactivated in May 2005, coincident with the activation of new gas extraction wells (described below). However, this system still remains in place and available for use, if the need arises.

Currently, the County MSW and CDL landfills have active gas collection and control systems which consist of a LFG extraction system and a soil vapor extraction system as shown on Figures 10 and 11. A cross sectional view of these systems is shown on Figure 12. Each of these systems includes a series of extraction wells and a gas conveyance system. The LFG system also employs treatment through combustion in a flare. In early 2005, system upgrades included the addition of soil vapor extraction wells, gas extraction wells, replacement plumbing components, a new gas conveyance system, replacement of a condensate sump, and an upgraded flare control. An additional soil vapor extraction well (VGW-9) was installed in 2008.

In February 2014, the blower on the LFG extraction system failed and was replaced with the soil vapor extraction blower. New blowers were installed for both the LFG system and the soil vapor extraction system in February 2015. The new blower for the soil vapor extraction system was observed to be seized during the June 2015 monitoring event. It was returned to the manufacturer for diagnostics and returned to service in September 2015.

It should also be noted that the LFG extraction system operated intermittently between February and October 2016 due to a fault in the blower's Programed Logic Controller (PLC) and inconstancies in the operation of the flare's pilot fuel supply (propane). These issues were not fully resolved until fall 2016. However, the SVE system, which connects to a separate blower unit and was not affected by these issues, operated normally throughout the reporting year.

4.1 COMPLIANCE MONITORING ACTIVITIES

LFG monitoring is conducted quarterly to provide an assessment of the subsurface landfill gas conditions at the site and compliance with regulatory criteria for subsurface methane concentrations. LFG monitoring procedures are detailed in the Landfill Gas Monitoring Plan 2008 Revision, Coupeville Solid Waste Facility, prepared by SCS (April, 2008). The monitoring program activities involve recording primary LFG (methane, carbon dioxide, and oxygen) concentrations and relative soil pressures, if applicable.

The LFG probes that are currently monitored include:

- Perimeter Probes (9 total)
- Building Probes (7 total)
- On-site structures - Animal Shelter (5 locations) and Scale House (2 locations)

LFG probe locations are illustrated on Figure 10.

4.1.1 Field Procedures

LFG probes were monitored in the field using a single, portable, multi-gas analyzer. The portable gas analyzer measures methane and carbon dioxide with a dual wavelength infrared cell with a reference channel. Oxygen is measured with an electro-chemical cell and the pressure is measured with a transducer. The gas analyzer was calibrated prior to, and after, each monitoring event. Field monitoring was conducted in accordance with Section 4 of the Landfill Gas Monitoring Plan. Field activities were documented in the field logs. Both field and calibration logs are included in Appendix A.

General weather conditions were noted during and preceding each monitoring event. Field documentation is included in Appendix A. Atmospheric pressure fluctuations can influence LFG concentration and pressure in the probes. Higher LFG concentrations are typically observed at the end of significantly falling barometric pressure trend. To assist with interpreting these data, barometric pressure trends were noted prior to and during each LFG monitoring event. Barometric pressure trends recorded over the course of the 2016 sampling events are included in Appendix D.

4.2 RESULTS

The following results are organized by LFG probe location, not depth-dependent sampling, and represent stabilized sampling conditions after purging at least one probe casing volume. Both stabilized readings and short-term readings of elevated pressures ("spikes") at a probe may indicate the potential presence of LFG within the landfill. Due to instrument limitations, concentrations of methane and/or carbon dioxide less than 0.3 percent by volume are not considered significant given the sensitivity of the field instrument at low concentrations.

The LFG monitoring results for 2016 are presented in Table 8.

4.2.1 Landfill Gas Probes

Results show that under stabilized sampling conditions, methane was observed in three LFG probes (GP-30, GP-S6 and GP-15) during the 2016 monitoring period. The GP-30 probes are completed within refuse and are where elevated methane concentrations are expected and have been historically observed. Methane concentrations at this location ranged from 0.9 to 35.9 percent by volume in 2016. The GP-S6D probe (located near the waste cell just north of the animal shelter) reported methane concentrations during the third and fourth quarter ranging from 2.2 to 3.4 by percent volume. During the fourth quarter of 2016, GP-15 probe (located near the southeast end of the waste cell) reported methane between 2.0 and 2.5 by percent volume. It should be noted that the LFG system operated intermittently between February and October due to blower and flare issues that were subsequently addressed in the fall of 2016. It is suspected that the low-level methane detections reported in GP-S6D and GP-15 during the latter half of the year were related to these system interruptions. Future methane detections in these probes are anticipated to be reduced or completely eliminated through the restoration of normal LFG extraction system operations.

Carbon dioxide was observed during the reporting period in all LFG probes, ranging from less than 0.3 to 17.7 percent by volume. Carbon dioxide was not detected above 0.3 percent by volume in probes GP-13S and GP-24-98 during the February 2016 monitoring event; GP-20-98, GP-23-78 and GP-24-98 during the April monitoring event; GP-23-78 and GP-24-98 in August 2016; and at GP-20-98, GP-23-78, GP-24-98 and GP-25-98 during the October monitoring event.

Depressed oxygen concentrations were recorded during the reporting period in all of the LFG probes at values ranging between 0.0 and 20.1 percent by volume. Oxygen concentrations above 20.3 percent by volume were observed at GP-13S, GP-26-18 and GP-20-78 in February 2016; GP-23-78 and the scale house in April; GP-28, GP-6S, GP-23-78, GP-24-98 and the scale house in August; and GP-25-58 and GP-25-98 during the October 2016 monitoring event. Representative relative (static) pressure measured in the perimeter LFG probes during 2016 ranged from -0.84 to +1.43 inches of water.

4.2.2 Structures - Animal Shelter and Scale House

Methane was not observed in the scale house during the 2016 monitoring events. Carbon dioxide was detected above 0.3 percent by volume (between 0.4 and 0.8 percent by volume) at the scale house during the same period. Depressed oxygen was not observed in the scale house in 2016.

The animal shelter has remained vacated and inaccessible since the fall of 2015 due to construction activities. This building was locked and not monitored throughout 2016 reporting period.

4.3 EVALUATION OF LANDFILL GAS COMPOSITION

As noted in past annual reports, LFG production at the CSWF likely reached its peak between 1 and 3 years after waste disposal ceased (1978 for the Town of Coupeville Landfill, 1991 for the County MSW Landfill and 2001 for the County CDL Landfill). Gas production is expected to be in a state of ongoing decline due to the nature of the waste decomposition processes.

For this site, the dominant mechanism for LFG movement in the soil is diffusion (movement from a high concentration to low concentration) due to the age of the waste and very low gas production. This method of LFG movement is much less pronounced as opposed to convective driven LFG movement (movement from high pressure to low pressure), which is predominant during active filling and within 10 years after filling has ceased. For the most part, the slow movement of LFG appears to allow the methane to oxidize before reaching the perimeter monitoring probes.

The 2016 monitoring results for the CSWF indicate that LFG (combined methane and carbon dioxide) remains present in the soils surrounding the disposal areas at very low concentrations. However, due to the age of waste, very low LFG production, and the method of LFG movement within the surrounding geologic formation (sandy/gravelly soils), methane is generally not observed at the compliance monitoring locations.

4.3.1 Landfill Gas Probes

Similar to previous compliance years, all of the LFG probes indicate the presence of LFG. However, results from these LFG probes demonstrate that methane migration is in control. Oxygen and carbon dioxide concentrations were consistent with previous year's observation, confirming the continued presence of LFG beneath the facility. At this time, no action other than continued routine operation, monitoring and tuning of the active LFG extraction wells is recommended.

4.3.2 Structures - Animal Shelter and Scale House

Methane and depressed oxygen were not measured in the scale house during 2016. However, carbon dioxide was detected at low levels in this structure. As previously noted, the animal shelter remained vacant and inaccessible throughout the current compliance period.

5.0 CONTAMINANT SOURCE CONTROL OPERATIONS

Contaminant source control systems now operating at the CSWF include stormwater collection from the waste disposal areas and LFG extraction. As previously discussed, the LFG extraction system operated intermittently over part of the reporting year, returning to full scale operation in the fall. The SVE system, which connects to a separate blower unit, was not affected by these issues and operated normally throughout the reporting year.

5.1 OPERATIONAL ACTIVITIES

5.1.1 Landfill Gas and Soil Vapor Extraction

Routine operations began at the upgraded LFG extraction system and soil vapor extraction system on November 22, 2005 when the automated timers were installed for both the LFG and soil vapor extraction systems. Blower motor hours for each system are manually recorded to track the operation of each system.

LFG and soil vapor extraction system operations and monitoring activities consisted of obtaining field measurements of primary gas composition, gas temperature, well pressure (vacuum), system pressure, and flow from each of the LFG extraction wells, soil vapor extraction wells, and blower inlets for each system. Monitoring is conducted approximately every 45 days. Adjustments to flow are made as necessary to maintain anaerobic conditions for the LFG extraction wells. Monitoring of these systems is conducted to provide an assessment of the extraction system performance and effects of removing soil vapor from the vadose zone surrounding the disposal areas.

From November 22, 2005 through mid-December, 2016, the LFG extraction system operated an average of 7.0 hours per week day and the soil vapor extraction system operated an average of 11.62 hours per week day, as shown on Table 9. These operational times are intended to balance extraction with the generation of LFG. If extraction exceeds gas generation, oxygen may be pulled into the landfill, which could create a fire hazard. Furthermore, drawing oxygen into the system prevents the LFG treatment system (flare) from operating correctly. Excessive extraction of native soil gas could induce migration of LFG from the waste mass to native soil when LFG is not being actively extracted.

5.1.1.1 Monitoring Activities

Monitoring locations, LFG extraction wells, soil vapor extraction wells, and blower inlets are shown on Figures 10 and 11. These locations are monitored for primary LFG constituents (methane, carbon dioxide, and oxygen) using a single, portable, multi-gas analyzer. In addition, gas temperature, well pressure, system pressure and flow were obtained from each of the extraction wells and blower inlets. Adjustments to individual well extraction rates are conducted on an as needed basis to maintain anaerobic conditions.

The monitoring locations are designated as follows:

- Vertical LFG Extraction Wells (five locations prefixed by VGW-#)
- Horizontal LFG Extraction Wells (nine locations prefixed by HGW-#)
- Vertical Soil Vapor Extraction Wells (four locations prefixed by VGW-# NS)
- Blower Inlets (BL-LFG and BL-SV)

General weather conditions were noted during and preceding the monitoring events. As previously noted, atmospheric pressure fluctuations can influence gas concentrations and pressure in gas wells. Barometric pressure trends prior to sampling were recorded from the nearest available weather station (Appendix D).

New LFG extraction wellheads were installed on all of the vertical and horizontal extraction wells on February 11, 2014. These wellheads allow for better flow adjustment control and accurate flow measurement during low flow conditions.

5.1.2 Stormwater Collection from the Waste Disposal Areas

In 2005, a stormwater drainage and collection system was installed at the interface of the CDL/MSW landfills. The system collects stormwater runoff and water which has infiltrated into the cover soils of the MSW landfill. This water is then pumped into a ditch on the west side of the CDL landfill where it flows to an infiltration pond near the western property boundary. Discharge (in cubic feet) from the stormwater collection system sump (near monitoring well C1S) has been monitored weekly since October 25, 2005 by CSWF personnel, and continued through 2016.

5.2 RESULTS

5.2.1 Landfill Gas Collection from In-Refuse and Native Soil Extraction Points

The performance of the LFG and soil vapor extraction systems is shown on Figure 15. Results of operating parameters for each system are shown on Tables 10 and 11.

The LFG extraction system was operated under a daily intermittent cycle for a total 27,855 hours between November 22, 2005 and mid-December 2016. During this time the system has extracted approximately 78,368,000 cubic feet of LFG from the refuse mass. The rate of extraction was initially at 120 standard cubic feet per minute (scfm), but has declined to an average of approximately 33 scfm through 2016, as extraction rates have converged with gas generation rates. The LFG composition at the blower inlet averaged 36.4 percent methane, 17.8 percent carbon dioxide, and 1.3 percent depressed oxygen during 2016.

The soil vapor extraction system operated under a daily intermittent cycle for a total 46,266 hours from November 22, 2005 through mid-December 2016. During this time it has extracted approximately 122,678,000 cubic feet of soil vapor/LFG from the native soil below the disposal areas. The rate of extraction was approximately 13.3 scfm during 2016. The soil vapor/LFG

composition at the blower inlet averaged 9.8 percent methane, 12.6 percent carbon dioxide, and 4.8 percent oxygen in 2016.

5.2.2 Stormwater Collection from the Waste Disposal Areas

As shown in Table 9 and Figure 14, during the period between October 25, 2005 and December 31, 2016, a total of 213,689 gallons of stormwater were pumped from the collection system sump and discharged to the infiltration pond west of the disposal areas. A total of 17,264 gallons of stormwater were pumped through the collection system during the 2016 reporting period.

5.3 EVALUTATION OF CONTAMINANT SOURCE CONTROL OPERATIONS

5.3.1 Landfill Gas Collection from In-Refuse and Native Soil Extraction Points

The gas control system at the CSWF has been enhanced to provide additional source control of LFG (especially methane) and facilitate the removal of these gases from the vadose zone. Removal of LFG from the vadose zone also provides a measure of source control for groundwater quality. In 2005, additional LFG extraction wells were installed in the MSW and CDL landfills to provide better extraction coverage throughout the waste mass. In addition, three soil vapor extraction wells were installed to extract soil vapor/gas from the vadose zone below the MSW and CDL landfills. In late 2005, the system began routine operations on a daily intermittent basis. An additional vertical LFG extraction well was installed at the site in April 2008. A program has been initiated to monitor gas quality and flow and adjust extraction rates and times to optimize both LFG and soil vapor extraction.

The gas flow rate has declined over the operating period to reflect the balancing of the LFG wells in an attempt to achieve extraction at the same rate as gas generation. As this balancing (tuning) continues, source control (to prevent LFG from entering the vadose zone) will continue.

Removal of soil vapor/gas from the vadose zone continues to increase with each day of operation. Through mid-December 2016, after approximately 3,980 days of operations at an average of 11.62 hours per day, approximately 122,678,000 cubic feet of soil gas/LFG has been removed from the vadose zone. The gas composition at the blower inlet has averaged 9.8 percent methane, 12.6 percent carbon dioxide, and 4.8 percent oxygen in 2016, with various trace compounds that may contribute to groundwater degradation. Further evidence of the effectiveness of the soil vapor removal is found in the results of the gas probe monitoring data.

Before activation of the soil vapor extraction system, an estimated 51 to 80 million cubic feet of LFG was displacing air and occupying the void space in the soil in the vadose zone surrounding the landfill. This range is based on the estimated extent of the gas plume and a range of soil densities.

The LFG extraction system is successfully controlling LFG generated within the refuse mass, thereby providing source control of LFG migration to the vadose zone. The success of this system's operations is evident by:

- The amount of LFG removed from the landfill (78,368,000 cubic feet)
- Well coverage/influence over greater volume of refuse mass
- Ability to adjust well extraction rates to match gas generation rates

Similarly, the soil vapor extraction system is successfully removing LFG from the vadose zone, and thereby providing an additional measure of source control for groundwater contamination. The success of this system's operations is evident by:

- The amount of soil vapor removed to date (122,678,000 cubic feet)
- The gas composition at the blower inlet has averaged 9.8 percent methane, 12.6 percent carbon dioxide, and 4.8 percent oxygen in 2016.

5.3.2 Stormwater Collection from the Waste Disposal Areas

On average, for every inch of rain that falls at the CSWF, 1,000 gallons of stormwater are pumped from the collection system sump near monitoring well C1S and discharged to the infiltration pond west of the disposal areas. A total of 17,264 gallons of stormwater were removed during the 2016 reporting period. Prior to this improvement, the runoff and infiltration water flowed into the CDL Landfill.

6.0 RECOMMENDATIONS

The results of the 2016 groundwater and LFG monitoring at the CSWF remain generally similar to those reported during previous compliance years. Vinyl chloride continues to represent the primary contaminant of concern in site groundwater. The most elevated vinyl chloride detections are reported in Aquifer 2 monitoring wells E2D and E7D, both of which are situated on the eastern flank of the closed CDL/MSW disposal cells. Lower level vinyl chloride exceedances continue to be observed in Aquifer 2 wells further to the northeast (downgradient) of the wells bordering the landfill. Low level vinyl chloride exceedances are also reported in several of the Aquifer 1 wells situated near the disposal cells.

However, groundwater samples collected from two newly installed Aquifer 2 "sentinel" wells (E9D and E10D) situated hydrologically downgradient of the observed vinyl chloride plume did not report detectable levels of VOCs (including vinyl chloride). The latter results corroborate the findings of past groundwater modelling efforts which concluded that VOCs originating from the CSWF disposal cells are naturally attenuating beneath the facility, and that vinyl chloride has not, and will not in the future, migrate beyond County property. During 2016, vinyl chloride levels remained stable or were slightly lower in most of the groundwater monitoring wells.

Groundwater elevations in both Aquifer 1 and Aquifer 2 have been gradually increasing over the past five years. However, this trend appears to have been partially mitigated in the Aquifer 1 wells immediately next to the CSWF disposal areas. This is likely due to the upgraded stormwater drainage and collection system at the interface of the CDL/MSW landfills. Prior to this improvement, the runoff and infiltration water flowed into the CDL cells where it could potentially produce leachate. Continued operation of the sump pump system remains an integral part of the source reduction efforts at the CSWF.

With the installation of E9D and E10D last fall, it is anticipated that the CSWF groundwater monitoring program will need to be revised to integrate the VOC wells into the routine sampling schedule and to optimize WAC 173-304 post-closure monitoring at the facility's compliance monitoring wells. Currently, quarterly groundwater sampling is conducted at a total of 36 wells, including 30 compliance wells (13 Aquifer 1, 12 Aquifer 2, and five pumping wells) and 6 VOC assessment wells. It is recommended that discussions be initiated with Island County Public Health and Ecology to optimize the monitoring program and selectively reduce the scope and frequency of compliance monitoring at the site to a level consistent with the observed site conditions. Future monitoring should consider a reduced level of post-closure compliance sampling (especially on upgradient, cross-gradient and off-site well locations) with continued VOC monitoring of those site wells situated within and downgradient of the vinyl chloride plume. The analytical testing suite should also be reevaluated both to optimize the monitoring program and to verify that the County's limited resources are applied to greatest effect to protect human health and the environment.

LFG monitoring results to date confirm the positive effects of removal of landfill gases from the vadose zone. However, based on the estimated volume of LFG in the vadose zone and number of unaffected gas probes, continued operation of the LFG and soil vapor extraction systems is recommended to continue to remove gases from the vadose zone and achieve a balanced

extraction rate for the LFG wells. The current level of operating, monitoring and system balancing should be maintained to ensure optimum performance of both systems, while preventing potential detrimental conditions such as air intrusion and pulling of LFG into the vadose zone.

TABLES

Table 1A. Historical Groundwater Elevations - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Location	C1S		E1D		E1S		E2S		E4S		N1SR		N2S		N3S		N4S		NE1S		S10S		S11S		SE1D		SE1S		W1S	
Reference Elevation (ft. msl)	161.41		203.98		204.26		202.72		205.04		191.84		203.83		204.87		202.61		208.02		205.65		204.99		206.14		206.03		195.15	
Monitoring Event	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Q416	90.17	71.24	138.03	65.95	138.19	66.07	137.72	65.00	141.47	63.57	92.87	100.29	136.65	67.18	139.67	65.20	123.92	78.69	144.68	63.34	135.96	69.69	134.87	70.12	140.31	65.83	139.90	66.13	109.5	85.7
Q316	89.84	71.57	138.12	65.86	138.38	65.88	137.88	64.84	141.45	63.59	91.40	101.76	136.90	66.93	140.13	64.74	124.43	78.18	144.64	63.38	135.94	69.71	134.92	70.07	140.28	65.86	139.90	66.13	109.7	85.42
Q216	90.18	71.23	138.22	65.76	138.52	65.74	138.06	64.66	141.49	63.55	90.07	103.09	137.50	66.33	140.42	64.45	124.45	78.16	144.66	63.36	136.04	69.61	135.04	69.95	140.46	65.68	140.09	65.94	109.7	85.43
Q116	90.61	70.80	138.30	65.68	138.58	65.68	138.22	64.50	141.69	63.35	90.53	102.63	137.75	66.08	140.74	64.13	124.48	78.13	144.71	63.31	136.14	69.51	135.04	69.95	140.38	65.76	140.10	65.93	109.7	85.49
Q415	91.50	69.91	138.47	65.51	138.72	65.54	138.30	64.42	141.86	63.18	94.62	97.22	137.00	65.04	140.71	63.12	124.24	80.63	145.20	62.82	136.41	71.61	135.12	70.53	140.56	64.43	140.19	65.84	109.6	85.51
Q315	91.65	69.76	138.50	65.48	138.76	65.50	138.39	64.33	141.74	63.30	92.84	99.00	137.60	65.04	140.56	63.27	124.23	80.64	144.88	63.14	136.19	71.83	135.02	70.63	140.35	64.64	140.05	65.98	109.7	85.5
Q215	92.06	69.35	138.60	65.38	138.89	65.37	138.30	64.42	141.88	63.16	91.69	100.15	--	--	140.55	63.28	123.80	81.07	145.00	63.02	136.16	71.86	135.15	70.50	140.40	64.59	140.03	66.00	109.5	85.63
Q115	--	--	138.53	65.45	138.79	65.47	138.43	64.29	141.87	63.17	92.65	99.19	--	--	140.80	63.03	109.65	95.22	147.00	61.02	136.55	71.47	135.30	70.35	140.57	64.42	140.20	65.83	109.7	85.5
Q414	--	--	138.37	65.61	138.63	65.63	138.47	64.25	142.00	63.04	94.55	97.29	--	--	140.32	63.51	123.70	81.17	145.20	62.82	136.56	71.46	135.35	70.30	140.56	64.43	140.22	65.81	109.6	85.53
Q314	--	--	138.68	65.30	138.93	65.33	138.55	64.17	141.99	63.05	93.31	98.53	--	--	140.45	63.38	124.18	80.69	145.10	62.92	136.85	71.17	--	--	140.70	64.29	140.37	65.66	109.6	85.55
Q214	91.46	69.95	138.75	65.23	138.95	65.31	138.61	64.11	142.00	63.04	92.19	99.65	--	--	140.65	63.18	124.76	80.11	145.10	62.92	136.72	71.30	135.44	70.21	140.72	64.27	140.37	65.66	109.8	85.38
Q114	--	--	138.74	65.24	139.00	65.26	138.47	64.25	141.97	63.07	93.24	98.60	--	--	140.65	63.18	124.00	80.87	144.44	63.58	136.66	71.36	135.41	70.24	140.67	64.32	140.34	65.69	109.7	85.5
Q413	91.46	69.95	138.96	65.02	139.25	65.01	138.75	63.97	142.21	62.83	93.51	98.33	--	--	--	--	--	--	145.45	62.57	137.00	71.02	135.72	69.93	140.98	64.01	140.62	65.41	109.7	85.45
Q313	91.10	70.31	138.90	65.08	139.20	65.06	138.63	64.09	142.15	62.89	93.95	97.89	--	--	140.95	62.88	--	--	145.30	62.72	136.70	71.32	135.70	69.95	141.05	63.94	140.69	65.34	109.7	85.44
Q213	91.40	70.01	139.13	64.85	139.50	64.76	138.91	63.81	142.31	62.73	91.05	100.79	--	--	140.77	63.06	--	--	145.35	62.67	136.60	71.42	135.75	69.90	141.13	63.86	140.80	65.23	109.6	85.57
Q113	91.88	69.53	139.00	64.98	139.40	64.86	139.00	63.72	142.30	62.74	91.47	100.37	--	--	141.00	62.83	124.00	80.87	145.34	62.68	137.12	70.90	135.80	69.85	141.80	63.19	140.85	65.18	109.8	85.4
Q412	--	--	139.20	64.78	139.51	64.75	139.10	63.62	142.45	62.59	92.71	99.13	--	--	141.50	63.37	--	--	145.70	62.32	137.10	68.55	133.65	71.34	142.91	63.23	140.95	65.08	109.80	85.35
Q312	92.45	68.96	139.28	64.70	139.58	64.68	139.11	63.61	142.51	62.53	91.18	100.66	--	--	141.30	63.57	123.71	78.90	145.60	62.42	137.12	68.53	135.08	69.91	140.28	65.86	140.72	65.31	109.70	85.45
Q212	--	--	139.60	64.38	139.91	64.35	139.39	63.33	145.75	59.29	91.60	100.24	--	--	141.85	63.02	123.95	78.66	145.90	62.12	137.55	68.10	136.25	68.74	141.62	64.52	141.27	64.76	109.80	85.35
Q112	--	--	139.70	64.28	140.00	64.26	139.53	63.19	143.12	61.92	93.65	98.19	--	--	141.80	63.07	123.88	78.73	146.20	61.82	137.72	67.93	136.40	68.59	142.05	64.09	141.54	64.49	109.80	85.35
Q411	--	--	139.80	64.18	140.10	64.16	139.81	62.91	143.20	61.84	93.30	98.54	--	--	142.35	62.52	123.85	78.76	146.45	61.57	137.60	68.05	136.30	68.69	141.81	64.33	141.45	64.58	109.80	85.35
Q311	--	--	139.70	64.28	140.00	64.26	139.68	63.04	142.03	63.01	93.00	98.84	--	--	141.93	62.94	123.59	79.02	146.14	61.88	137.50	68.15	136.22	68.77	141.90	64.24	141.36	64.67	109.82	85.33
Q211	--	--	139.90	64.08	140.18	64.08	139.77	62.95	143.25	61.79	92.68	99.16	--	--	142.22	62.65	143.25	59.36	146.19	61.83	137.43	68.22	136.18	68.81	141.64	64.50	141.25	64.78	109.79	85.36
Q111	--	--	139.90	64.08	140.18	64.08	139.77	62.95	143.25	61.79	92.68	99.16	--	--	142.22	62.65	143.25	59.36	146.19	61.83	137.43	68.22	136.18	68.81	141.64	64.50	141.25	64.78	109.79	85.36

Notes:

Monitoring Event code = Q (quarter), 3-digit number: Quarter of Year (1-digit) and Year designation (2-digit).

DTW = Depth to water (feet below the top of casing), WLE = Water level elevation (feet-msl)

-- = No measurement available

The WLEs between 85.47 and 85.61 feet in well W1S reflect the elevation of stagnant water in the well's sump.

Table 1B. Historical Groundwater Elevations - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Location	E2D		E3D		E4D		N1D		N2D		N3D		N5D		N5S		NE1D		S11D		W1D		W2S	
Reference Elevation (ft-msl)	202.52		204.13		205.40		191.51		203.48		204.39		204.84		205.00		207.82		205.07		194.80		203.68	
Monitoring Event	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Q416	148.24	54.28	151.03	53.10	153.69	51.71	136.40	55.11	148.29	55.19	150.23	54.16	149.80	55.04	150.02	54.98	158.31	49.51	146.56	58.51	139.50	55.30	148.50	55.18
Q316	148.45	54.07	151.29	52.84	153.71	51.69	136.62	54.89	148.43	55.05	150.49	53.90	149.99	54.85	150.22	54.78	158.24	49.58	146.72	58.35	139.64	55.16	148.57	55.11
Q216	148.62	53.90	151.31	52.82	153.90	51.50	136.84	54.67	148.68	54.80	150.80	53.59	150.12	54.72	150.31	54.69	158.44	49.38	146.90	58.17	139.85	54.95	148.80	54.88
Q116	148.64	53.88	151.18	52.95	153.84	51.56	136.95	54.56	148.94	54.54	150.87	53.52	150.03	54.81	150.63	54.37	158.50	49.32	146.91	58.16	139.94	54.86	148.83	54.85
Q415	148.75	53.77	151.31	52.82	153.84	51.56	136.94	54.57	148.85	54.63	150.93	53.46	150.44	54.40	150.70	54.30	158.73	49.09	140.56	**64.51**	140.01	54.79	148.77	54.91
Q315	149.00	53.52	151.38	52.75	153.99	51.41	137.00	54.51	148.82	54.66	150.97	53.42	150.29	54.55	150.52	54.48	158.52	49.30	147.05	58.02	140.05	54.75	148.83	54.85
Q215	148.95	53.57	151.51	52.62	154.10	51.30	137.17	54.34	149.01	54.47	151.00	53.39	150.08	54.76	150.25	54.75	158.62	49.20	147.00	58.07	140.15	54.65	148.99	54.69
Q115	148.90	53.62	151.46	52.67	154.12	51.28	137.00	54.51	149.09	54.39	151.17	53.22	150.65	54.19	150.90	54.10	158.70	49.12	147.30	57.77	140.20	54.60	149.18	54.50
Q414	149.00	53.52	151.39	52.74	154.28	51.12	137.29	54.22	149.14	54.34	150.96	53.43	150.25	54.59	150.45	54.55	158.75	49.07	147.15	57.92	140.30	54.50	149.25	54.43
Q314	149.10	53.42	151.78	52.35	154.48	50.92	132.35	**59.16**	149.20	54.28	151.24	53.15	150.66	54.18	150.89	54.11	158.90	48.92	147.42	57.65	140.56	54.24	149.31	54.37
Q214	149.20	53.32	151.70	52.43	154.24	51.16	137.35	54.16	149.25	54.23	151.20	53.19	150.62	54.22	150.88	54.12	158.88	48.94	147.38	57.69	147.19	**47.61**	149.31	54.37
Q114	149.05	53.47	151.70	52.43	154.33	51.07	137.41	54.10	149.23	54.25	151.27	53.12	150.76	54.08	151.00	54.00	159.00	48.82	147.36	57.71	140.41	54.39	--	--
Q413	149.40	53.12	152.00	52.13	154.70	50.70	137.60	53.91	149.60	53.88	151.60	52.79	150.96	53.88	151.28	53.72	159.20	48.62	147.70	57.37	140.70	54.10	149.70	53.98
Q313	149.50	53.02	152.00	52.13	154.70	50.70	137.70	53.81	149.60	53.88	151.60	52.79	151.10	53.74	151.40	53.60	155.30	**52.52**	147.80	57.27	140.80	54.00	149.70	53.98
Q213	149.55	52.97	152.33	51.80	154.72	50.68	137.80	53.71	149.76	53.72	151.47	52.92	151.22	53.62	151.33	53.67	159.52	48.30	147.90	57.17	140.90	53.90	149.83	53.85
Q113	149.60	52.92	152.10	52.03	154.78	50.62	137.90	53.61	149.82	53.66	151.71	52.68	151.30	53.54	151.59	53.41	159.15	48.67	147.96	57.11	140.95	53.85	149.87	53.81
Q412	149.56	52.96	152.58	51.55	155.24	50.16	138.10	53.41	149.99	53.49	152.21	52.18	151.25	53.59	151.85	53.15	159.90	47.92	148.60	56.47	--	--	150.08	53.60
Q312	147.70	54.82	152.62	51.51	155.05	50.35	138.00	53.51	149.91	53.57	152.05	52.34	151.40	53.44	151.70	53.30	159.62	48.20	148.18	56.89	141.11	53.69	150.01	53.67
Q212	150.10	52.42	152.66	51.47	155.07	50.33	138.40	53.11	150.22	53.26	152.00	52.39	151.55	53.29	151.75	53.25	159.90	47.92	148.52	56.55	141.41	53.39	150.35	53.33
Q112	150.12	52.40	152.80	51.33	155.40	50.00	138.48	53.03	150.30	53.18	152.27	52.12	151.77	53.07	151.95	53.05	160.02	47.80	148.60	56.47	141.50	53.30	150.52	53.16
Q411	150.40	52.12	152.94	51.19	155.65	49.75	138.70	52.81	150.49	52.99	152.80	51.59	151.98	52.86	152.15	52.85	160.22	47.60	148.70	56.37	141.65	53.15	150.57	53.11
Q311	150.30	52.22	152.94	51.19	155.62	49.78	138.60	52.91	150.50	52.98	152.60	51.79	151.77	53.07	152.10	52.90	160.20	47.62	148.58	56.49	141.60	53.20	150.68	53.00
Q211	150.28	52.24	152.98	51.15	155.57	49.83	138.58	52.93	150.47	53.01	152.36	52.03	151.84	53.00	152.06	52.94	160.15	47.67	148.60	56.47	141.60	53.20	150.58	53.10
Q111	150.55	51.97	153.09	51.04	155.66	49.74	138.68	52.83	150.53	52.95	152.54	51.85	151.79	53.05	152.12	52.88	160.11	47.71	148.75	56.32	141.73	53.07	150.68	53.00

Notes:

Monitoring Event Code = Q (quarter), 3-digit number: Quarter of the year (1-digit) and Year designation (2-digit).

DTW = Depth to Water (feet below the top of casing), WLE = Water level elevation (feet-msl)

-- = No meausement available

Bold measuremnets are not used in historic groundwater evaluation due to anomolous results (i.e., suspected field measurement anomoly)

Table 2A. Field Parameter, General Chemistry, Inorganic Results, and Dicamba - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	C1S				E1D				E1S				E2S				E4S			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements																					
Dissolved Oxygen	mg/L	3.1	3.3	4.4	3.3	1.0	2.1	1.6	1.6	5.6	5.9	6.3	6.2	0.3	0.7	0.3	0.4	1.9	1.5	2.4	1.8
ORP	mV	97	99	179	56	53	111	47	32	77	86	68	59	78	82	117	63	48	79	47	108
pH	SU	6.64	5.98	6.93	6.40	7.24	7.12	6.83	6.71	7.05	6.70	6.74	6.60	6.97	7.06	7.17	6.61	7.09	—	6.98	6.58
Specific Conductivity	µS/cm	1369	1510	1561	1245	1628	1675	1690	1700	1135	1145	1136	1158	1332	1361	1339	1335	1159	1181	1137	1158
Temperature	deg-C	11.8	12.5	13.6	14.0	11.1	11.5	14.7	11.9	10.9	11.6	13.0	12.1	12.0	12.2	13.0	13.0	10.4	10.7	12.3	11.1
Turbidity	NTU	1.57	1.4	5.7	1.1	1.4	1.2	0.8	1.0	1.3	1.4	1.4	1.6	1.4	3.3	5.7	0.8	4.2	1.5	0.7	0.9
General Chemistry																					
Alkalinity, Total	mg/L	420	470	530	480	760	740	810	860	360	350	380	370	620	580	640	640	530	500	520	530
Alkalinity, Bicarbonate	mg/L	420	470	530	480	760	740	810	860	360	350	380	370	620	580	640	640	530	500	520	530
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.51	0.2 U	0.2 U
Calcium	mg/L	180	190	190	160	170	160	160	180	140	130	120	120	170	170	150	170	150	140	130	140
Chemical Oxygen Demand	mg/L	20	19	17	14 B	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	9.1	8	8.8	4.6	81	83	110	73	96	100	94	93	26	26	24	22	44	48	54	48
Fluoride	mg/L	0.1 U	0.2 U	0.1 U	0.61	0.1 U	0.2 U	0.11	0.2 U	0.1 U	0.2 U	0.1 U	0.2 U	0.1 U	0.2 U	0.1 U	0.72	0.1 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	76	77	78	65	110	110	110	120	55	48	47	47	69	66	64	71	57	51	51	55
Potassium	mg/L	5.9	6.4	6.5	6	9.4	8.7	8.8	9.5	6.3	6	5.9	6	7.6	7.6	7	7.7	6.6	6.2	6.8	6.3
Sodium	mg/L	32	31	33	31	46	45	45	49	29	26	27	28	32	32	30	34	32	30	30	32
Sulfate	mg/L	340	340	350	200	45	50	80	56	39	42	40	39	59	65	61	63	36	43	45	45
Total Dissolved Solids	mg/L	980	1100	1100	860	960	930	960	970	660	660	650	650	800	810	800	810	670	700	670	680
Total Nitrate/Nitrite	mg-N/L	6.4	7.2	8.6	4.7	0.079	0.05 U	0.05 U	0.05 U	12	12	13	12	8.4	8.6	8.7	8.7	0.62	0.74	0.71	0.86
Total Organic Carbon	mg/L	9.3	9	9.6	7.6 B	2.1	2.3	1.6	2.2 B	1.8	1.3	1.2	1.6 B	1.6	1.9	1.4	1.8 B	1.3	1.4	1.5	1.7 B
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00045	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00047	0.00042	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0016	0.0017	0.0033	0.0022	0.005	0.005	0.0061	0.0056	0.0017	0.0017	0.003	0.0026	0.002	0.0019	0.0031	0.0022	0.0032	0.0028	0.004	0.004
Barium	mg/L	0.055	0.058	0.055	0.048	0.05	0.048	0.042	0.05	0.039	0.038	0.034	0.034	0.066	0.064	0.055	0.064	0.051	0.049	0.045	0.049
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.01	0.01	0.0098	0.01	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.013	0.014	0.013	0.013	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0056	0.0048	0.006	0.0055
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00072	0.0007	0.0008	0.00075	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0011	0.001	0.00098	0.00096	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.0035	0.0091	0.002 U	0.002 U	0.0026	0.0034	0.002 U	0.002 U	0.002 U	0.003	0.002 U	0.002 U	0.0031	0.0042	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00054	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Manganese	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.039	0.04	0.041	0.047	0.02 U	0.02 U	0.02 U	0.02 U	0.38	0.35	0.35	0.37	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.0092	0.0099	0.0099	0.0071	0.0056	0.0055	0.0062	0.0054	0.003	0.0032	0.0033	0.003 U	0.005	0.0049	0.0049	0.0049	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.0012	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.0048	0.004 U	0.0068	0.0071	0.0075	0.0073	0.0041	0.004 U	0.005	0.0059	0.004 U	0.004 U	0.004	0.004 U	0.0065	0.0058	0.0075	0.0084
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.028	0.007 U
Herbicides																					
Dicamba	µg/L	—	—	—	—	—	—	—	—	3.2	2.7	1.6	1.8	—	—	—	—	—	—	—	—

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
J = value estimated
H = analyzed outside of holdtime
— = well was not sampled

Table 2A. Field Parameter, General Chemistry, Inorganic Results, and Dicamba - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	N1SR				N2S				N3S				NE1S				S10S			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements																					
Dissolved Oxygen	mg/L	1.9	—	3.0	3.0	5.2	4.8	4.4	4.4	5.2	—	6.4	5.4	5.4	5.1	5.3	5.4	0.5	0.4	0.4	0.4
ORP	mV	134	138	171	114	181	108	105	105	31	13	63	83	112	87	105	79	86	86	74	78
pH	SU	6.25	6.35	6.67	6.17	6.73	6.66	7.26	6.47	7.03	7.10	7.54	6.94	7.20	6.70	7.09	6.79	6.87	6.76	7.16	6.42
Specific Conductivity	µS/cm	405	437	459	504	1500	1610	1598	1590	1065	1074	1061	1063	783	783	809	811	1424	1440	1412	1420
Temperature	deg-C	11.3	12.5	12.6	12.7	11.4	12.9	17.9	13.4	11.6	12.3	13.4	13.1	11.7	12.8	16.9	14.3	13.5	14.6	15.1	14.1
Turbidity	NTU	5.6	1.5	5.2	0.9	7.5	3.1	6.3	3.3	2.9	1.4	5.9	1.0	7.9	1.5	1.0	1.2	1.2	2.3	13.7	0.8
General Chemistry																					
Alkalinity, Total	mg/L	180	190	210	210	730	720	740	730	450	440	480	440	300	290	320	320	400	380	410	420
Alkalinity, Bicarbonate	mg/L	180	190	210	210	730	720	740	730	450	440	480	440	300	290	320	320	400	380	410	420
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	mg/L	35	33	35	37	190	180	180	180	130	130	120	130	100	100	94	100	150	140	130	130
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	5.6	7.5	5.1	4.9	34	37	33	31	39	40	39	38	18	20	21	19	61	63	67	58
Fluoride	mg/L	0.1 U	0.2 U	0.1 U	0.2 U	0.1 U	0.2 U	0.1 U	0.87	0.1 U	0.2 U	0.1 U	0.26	0.1 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.1 U	0.46
Magnesium	mg/L	34	31	32	35	100	97	96	94	50	48	44	47	33	34	31	34	86	85	79	81
Potassium	mg/L	3.3 U	3.3 U	3.3 U	3.3 U	9.4	9.4	9.7	9.5	6.1	6.2	5.5	6	5.5	5.5	5.7	5.3	7.7	7	6.7	6.9
Sodium	mg/L	12	11	11	12	32	32	33	32	28	27	26	28	18	17	17	18	30	30	29	30
Sulfate	mg/L	14	15	17	18	100	110	130	110	42	45	43	44	57	64	67	71	95	110	120	97
Total Dissolved Solids	mg/L	260	280	290	310	960	970	970	960	630	640	630	600	470	470	510	500	870	840	880	850
Total Nitrate/Nitrite	mg-N/L	3.1	3	4.9	6	5.4	5.5	6.3	6.2	5.5	5.9	6.1	6.1	4.7	5	5.5	5.7	42	45	46	43
Total Organic Carbon	mg/L	2.6	2.4	2	2.4 B	2.8	1.8	2.2	2.7 B	1.3	1.1	1.2	1.4 B	1.3	1.1	1.5	1.3 B	2.2	1.8	1.7	2.4 B
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0022	0.002	0.0036	0.0026	0.0019	0.0015	0.003	0.0028	0.0028	0.0027	0.0042	0.0032	0.0032	0.0029	0.0041	0.0036	0.0025	0.0024	0.0035	0.0033
Barium	mg/L	0.014	0.014	0.015	0.016	0.061	0.057	0.053	0.056	0.037	0.036	0.032	0.032	0.033	0.032	0.029	0.03	0.042	0.04	0.034	0.037
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.002	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0026	0.0019	0.0026	0.0034	0.0004 U	0.0004 U	0.0005	0.00067	0.011	0.011	0.011	0.011	0.004	0.0042	0.0042	0.0042	0.0004 U	0.0004 U	0.00057	0.00088
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.0062	0.002 U	0.002 U	0.002 U	0.0034	0.002 U	0.002 U	0.002 U	0.0039	0.002 U	0.0034	0.0033	0.0044	0.0029	0.002 U	0.002 U	0.0036	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Manganese	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.081	0.069	0.06	0.056
Nickel	mg/L	0.0067	0.007	0.0075	0.008	0.0054	0.0049	0.0058	0.005	0.003 U	0.003 U	0.003 U	0.003 U	0.0055	0.0053	0.0057	0.0049	0.007	0.007	0.0068	0.0062
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.0048	0.004	0.0067	0.0059	0.0054	0.0044	0.0059	0.0065	0.0061	0.0057	0.0073	0.006	0.006	0.0055	0.0073	0.0072	0.0047	0.0046	0.0054	0.0062
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
Herbicides																					
Dicamba	µg/L	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
J = value estimated
H = analyzed outside of holdtime
— = well was not sampled

Table 2A. Field Parameter, General Chemistry, Inorganic Results, and Dicamba - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	S11S				SE1D				SE1S			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements													
Dissolved Oxygen	mg/L	0.5	0.18	0.22	0.23	0.65	0.94	2.44	1.51	4.37	5.66	5.57	4.38
ORP	mV	2	-11	-66	-173	51	32	-112	-106	166	90	77	106
pH	SU	8.07	—	8.42	7.44	7.87	7.21	7.61	7.39	7.30	6.87	7.62	7.06
Specific Conductivity	µS/cm	892	916	892	904	925	936	936	930	796	843	843	845
Temperature	deg-C	8.1	10.1	10.8	10.4	9.7	10.5	11.8	10.8	9.8	10.4	10.9	10.4
Turbidity	NTU	1.1	1.8	7.8	0.7	3.0	8.4	8.2	7.5	3.4	1.9	4.0	0.8
General Chemistry													
Alkalinity, Total	mg/L	350	340	370	360	380	360	380	370	300	290	310	340
Alkalinity, Bicarbonate	mg/L	350	340	370	360	380	360	380	370	300	290	310	340
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	mg/L	74	76	74	76	68	72	66	70	72	77	65	74
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	61	61	59	63	68	73	67	66	63	68	74	62
Fluoride	mg/L	0.1 U	0.2 U	0.15	0.2 U	0.1 U	0.2 U	0.18	0.2 U	0.1 U	0.2 U	0.16	0.2 U
Magnesium	mg/L	51	49	49	52	60	63	59	62	47	50	42	49
Potassium	mg/L	6.1	6.7	6.3	6.7	7.6	8.5	7.6	8	5.6	6.3	5.3	5.8
Sodium	mg/L	32	33	33	35	34	34	33	35	31	31	28	32
Sulfate	mg/L	27	31	29	30	25	28	26	25	37	39	38	38
Total Dissolved Solids	mg/L	510	520	490	510	520	520	520	520	500	480	480	490
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	1.1	1.2	1.2	1.3
Total Organic Carbon	mg/L	2.5	2.2	1.9	2.5 B	2.2	2	1.8	2.1 B	2.2	1.8	1.6	2.5 B
Metals													
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0067	0.0058	0.0069	0.0067	0.012	0.011	0.013	0.012	0.0061	0.0052	0.0064	0.0059
Barium	mg/L	0.037	0.035	0.031	0.032	0.05	0.049	0.047	0.048	0.024	0.024	0.023	0.026
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00041	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.00044	0.0004 U	0.00042	0.0015	0.00089	0.00048	0.0085	0.0091	0.0077	0.0079
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.0029	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0042	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Manganese	mg/L	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.19	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0032	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0017	0.0016	0.0016	0.0018
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0054	0.0046	0.0058	0.0052
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.0076	0.007 U
Herbicides													
Dicamba	µg/L	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
J = value estimated
H = analyzed outside of holdtime
— = well was not sampled

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E2D				E3D				E4D				N1D				N2D			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements																					
Dissolved Oxygen	mg/L	1.1	2.2	0.9	1.3	1.6	—	7.0	7.2	0.9	1.3	1.5	2.0	0.7	—	5.3	3.8	0.6	0.3	0.4	0.6
ORP	mV	86	87	129	47	-15	2	55	48	-187	-39	-203	-199	-50	-34	61	-41	132	87	51	-105
pH	SU	6.81	—	7.05	6.45	7.59	7.63	7.74	7.26	8.00	—	7.89	7.49	7.08	7.25	7.59	7.11	6.90	6.54	7.62	6.66
Specific Conductivity	µS/cm	1761	1795	1723	1720	711	742	761	751	553	559	553	547	1500	1510	1519	1520	1141	1232	1209	1238
Temperature	deg-C	11.7	12.4	14.3	13.3	9.8	11.9	21.7	12.2	10.2	11.1	13.5	12.0	11.4	12.4	14.0	13.7	12.1	12.8	14.3	13.1
Turbidity	NTU	1.1	1.4	5.6	0.9	9.8	1.4	0.5	0.8	4.5	2.9	2.5	2.4	3.1	1.4	5.3	1.2	4.8	1.9	5.3	6.5
General Chemistry																					
Alkalinity, Total	mg/L	910	860	900	860	320	320	330	350	230	220	230	220	490	490	530	500	480	460	510	510
Alkalinity, Bicarbonate	mg/L	910	860	900	860	320	320	330	350	230	220	230	220	490	490	530	500	480	460	510	510
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	mg/L	240	210	190	210	72	69	64	69	41	38	33	36	130	120	120	120	120	110	110	110
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	30	31	28	27	35	36	39	33	30	32	35	32	130	130	170	120	71	75	70	72
Fluoride	mg/L	0.1 U	0.2 U	0.12	1.3	0.1 U	0.2 U	0.2 U	0.2 U	0.13	0.2 U	0.24	0.2 U	0.1 U	0.2 U	0.14	0.31	0.1 U	0.2 U	0.12	0.2 U
Magnesium	mg/L	110	100	96	110	46	43	40	44	27	25	24	26	110	99	98	100	82	73	72	73
Potassium	mg/L	10	9.4	8.6	9.6	6.7	6.7	7.1	6.6	10	10	11	10	10	10	9.6	9.9	8.8	8.1	8.2	8.3
Sodium	mg/L	42	39	37	42	27	27	26	27	34	34	37	38	50	46	46	47	41	40	41	41
Sulfate	mg/L	55	60	60	66	16	16	16	15	13	13	13	11	130	150	190	130	61	65	66	72
Total Dissolved Solids	mg/L	1000	1100	1000	1000	430	430	450	430	330	340	320	320	890	910	900	890	690	690	670	690
Total Nitrate/Nitrite	mg-N/L	3.3	3.4	3.9	4.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	2.4	2.7	2.7	2.9
Total Organic Carbon	mg/L	2.8	2.6	2.3	2.9 B	1.4	1.1	1.5	1.3 B	3.7	4.4	4.1	4.2 B	4.1	3.9	3.3	4 B	2.2	1.9	2.1	2.2 B
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0027	0.0024	0.0039	0.0031	0.007	0.0066	0.0075	0.0067	0.015	0.014	0.016	0.016	0.0057	0.0053	0.0067	0.0051	0.0036	0.0033	0.0044	0.0042
Barium	mg/L	0.056	0.053	0.045	0.053	0.031	0.03	0.027	0.031	0.036	0.034	0.03	0.034	0.12	0.11	0.11	0.099	0.032	0.03	0.027	0.029
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004	0.0004 U	0.00072	0.00048	0.00045	0.0011	0.00049	0.00047	0.0005	0.00054	0.0004 U	0.0004 U	0.0004	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00047
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.0031	0.0042	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0023	0.002 U	0.002 U	0.002 U	0.002 U	0.0038	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.43	0.34	0.42	0.31	0.3 U	0.3 U	0.3 U	1.3
Lead	mg/L	0.0004 U	0.0004 U	0.00082	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Manganese	mg/L	0.066	0.061	0.059	0.063	0.29	0.26	0.076	0.24	0.078	0.066	0.053	0.062	0.29	0.25	0.21	0.25	0.02 U	0.02 U	0.02 U	0.02
Nickel	mg/L	0.0079	0.0073	0.0074	0.0076	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0096	0.009	0.011	0.017	0.0047	0.0043	0.0045	0.0044
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.0074	0.0067	0.0078	0.0074	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0043	0.0051
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
— = well was not sampled

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	N3D				N5D				N5S				NE1D				S11D			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements																					
Dissolved Oxygen	mg/L	0.9	—	0.9	5.3	1.4	1.5	1.6	2.3	0.7	1.3	1.3	0.8	1.7	2.3	4.6	3.9	0.9	1.1	1.1	0.9
ORP	mV	10	-2	40	26	89	97	-14	13	152	109	136	19	42	80	112	25	-15	-17	-94	-123
pH	SU	7.42	7.54	7.97	6.67	7.55	7.41	7.11	7.03	7.22	7.42	7.11	7.05	7.41	7.25	6.84	6.72	7.98	7.12	7.39	7.46
Specific Conductivity	µS/cm	634	639	640	631	1426	1467	1441	1452	711	764	746	751	674	675	690	675	910	935	925	928
Temperature	deg-C	11.6	12.7	13.1	14.1	9.4	10.7	11.9	11.2	10.2	10.5	11.3	10.8	11.5	13.5	18.4	15.4	9.6	10.2	11.1	10.4
Turbidity	NTU	3.9	2.3	7.3	2.7	0.9	1.2	0.9	1.0	3.5	1.9	1.1	1.2	6.4	4.0	1.0	0.9	3.5	3.2	3.9	—
General Chemistry																					
Alkalinity, Total	mg/L	240	240	250	250	570	560	600	630	300	280	310	330	260	250	280	260	340	330	350	360
Alkalinity, Bicarbonate	mg/L	240	240	250	250	570	560	600	630	300	280	310	330	260	250	280	260	340	330	350	360
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	mg/L	70	70	63	72	120	120	110	130	65	65	65	67	63	64	57	61	74	76	76	74
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	37	37	37	38	110	120	110	96	43	48	44	43	39	41	40	37	75	73	72	77
Fluoride	mg/L	0.1 U	0.2 U	0.1 U	0.2 U	0.1 U	0.2 U	0.14	0.2 U	0.1 U	0.2 U	0.17	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.16	0.2 U
Magnesium	mg/L	27	25	24	27	97	94	90	100	42	41	41	43	37	38	32	35	54	52	54	54
Potassium	mg/L	6.1	6.1	5.5	6.2	10	10	9.7	11	6.4	6.4	6.4	6.7	6.3	6.5	6.4	6.1	7.1	7.7	7.4	7.6
Sodium	mg/L	22	21	20	22	45	43	44	48	26	24	26	27	26	26	24	27	36	36	37	38
Sulfate	mg/L	22	25	23	24	54	59	58	61	33	35	34	34	34	36	37	36	28	32	30	30
Total Dissolved Solids	mg/L	370	380	380	380	810	840	820	830	420	410	430	430	390	390	390	390	520	540	520	510
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.082	0.093	0.052	0.05 U	0.05 U	0.05 U	0.05 U
Total Organic Carbon	mg/L	1 U	1 U	1.5	1.1 B	3.2	2.4	2.6	2.8 B	1.6	1.4	1.1	1.4 B	1.1	1	1.5	1.2 B	2.7	3.1	2	2.6 B
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0084	0.0081	0.0095	0.0084	0.0041	0.0039	0.0049	0.0042	0.0036	0.0034	0.0042	0.0036	0.0078	0.0073	0.009	0.0079	0.0089	0.0081	0.009	0.0089
Barium	mg/L	0.029	0.029	0.025	0.027	0.092	0.091	0.085	0.092	0.031	0.029	0.028	0.03	0.023	0.023	0.022	0.022	0.046	0.045	0.04	0.04
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.00046	0.0004 U	0.0004 U	0.0004 U	0.00044	0.0004 U	0.00041	0.0027	0.00056	0.00044	0.0004 U	0.0004 U	0.00067	0.00045	0.00065	0.00048	0.00045	0.0005
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.0043	0.002 U	0.002 U	0.0029	0.002 U	0.002 U	0.002 U	0.0075	0.0023	0.002 U	0.002 U	0.002 U	0.0028	0.002 U	0.002 U	0.002 U	0.0034	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.32	0.3 U
Lead	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Manganese	mg/L	0.028	0.026	0.028	0.027	0.24	0.24	0.23	0.24	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.17	0.16	0.16	0.16
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.0087	0.0084	0.0089	0.0084	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
— = well was not sampled

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	W1D				W2S			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements									
Dissolved Oxygen	mg/L	0.7	—	1.6	0.8	5.3	—	6.7	4.39
ORP	mV	-24	-132	-108	-137	79	110	100	92
pH	SU	7.69	7.84	7.57	7.91	7.37	7.15	7.05	6.97
Specific Conductivity	µS/cm	968	964	968	979	914	953	949	928
Temperature	deg-C	10.2	10.5	11.7	10.7	9.7	10.2	12.4	10.9
Turbidity	NTU	1.3	1.6	0.6	1.0	1.2	1.4	0.6	0.8
General Chemistry									
Alkalinity, Total	mg/L	370	370	400	380	340	360	370	370
Alkalinity, Bicarbonate	mg/L	370	370	400	380	340	360	370	370
Ammonia	mg-N/L	0.2 U	0.25	0.23	0.22	0.2 U	0.22	0.2 U	0.2 U
Calcium	mg/L	57	55	51	54	99	86	85	86
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	71	69	67	73	47	48	52	49
Fluoride	mg/L	0.12	0.2 U	0.17	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	74	68	65	70	56	47	47	48
Potassium	mg/L	10	9.8	9.2	10	4.5	4.2	4.6	4.1
Sodium	mg/L	45	42	41	44	37	42	37	37
Sulfate	mg/L	31	35	33	35	51	56	57	58
Total Dissolved Solids	mg/L	530	550	540	540	520	560	560	540
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.05 U	0.05 U	0.05 U	3.3	3.5	3.7	3.9
Total Organic Carbon	mg/L	2.4	2.5	2.1	2.6 B	2.3	2	2.4	2.2 B
Metals									
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0079	0.0081	0.0092	0.009	0.0026	0.0022	0.003	0.0028
Barium	mg/L	0.068	0.069	0.062	0.061	0.028	0.03	0.026	0.027
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0021	0.0019	0.0023	0.0022
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Manganese	mg/L	0.16	0.15	0.14	0.15	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.0012	0.0014	0.0013	0.0014
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.0044	0.004 U	0.0049	0.0055
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
— = well was not sampled

Table 2C. Field Parameter, General Chemistry, and Inorganic Results - Water Supply Wells
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Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	DNR				DOT				S7				STP				WR1			
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
Field Measurements																					
Dissolved Oxygen	mg/L	1.8	1.1	1.4	3.1	1.9	1.1	1.0	1.7	4.4	4.9	1.4	1.6	2.7	1.5	1.3	2.1	3.9	—	3.3	3.1
ORP	mV	-42	14	-26	-109	-32	7	-149	-135	128	77	-200	-159	-77	-51	-104	-208	135	163	103	95
pH	SU	7.31	7.45	8.22	7.20	6.91	—	7.67	7.45	7.51	7.13	7.85	7.68	8.34	—	8.88	7.75	7.31	7.34	7.36	7.22
Specific Conductivity	µS/cm	824	861	849	858	661	683	671	683	702	757	747	723	511	579	571	566	839	840	856	846
Temperature	deg-C	9.9	11.9	13.1	11.6	8.4	12.0	14.2	11.6	6.8	13.6	17.6	13.8	9.9	12.3	12.2	12.3	9.1	11.3	14.2	11.8
Turbidity	NTU	7.3	1.2	6.2	1.9	7.5	2	0.7	0.9	6.7	1.5	2.6	4.6	66.0	23.1	135.1	35.3	4.8	1.6	0.8	2.6
General Chemistry																					
Alkalinity, Total	mg/L	320	310	330	330	300	290	310	300	300	290	310	310	220	220	220	210	310	300	330	340
Alkalinity, Bicarbonate	mg/L	320	310	330	330	300	290	310	300	300	290	310	310	220	220	220	210	310	300	330	340
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.46	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	mg/L	78	74	74	73	61	57	55	56	40	39	37	40	42	42	40	43	81	78	72	79
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	56	62	55	54	22	24	23	21	42	43	47	44	36	41	36	35	57	57	62	58
Fluoride	mg/L	0.1 U	0.2 U	0.16	0.2 U	0.1 U	0.2 U	0.15	0.2 U	0.12	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.15	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	50	47	46	45	41	37	38	38	58	54	52	57	31	30	29	32	48	44	41	45
Potassium	mg/L	6.2	5.9	5.9	5.9	6.3	6.3	5.9	6.1	9.9	10	11	10	11	11	11	12	5.4	5.4	5.6	5.4
Sodium	mg/L	33	30	31	31	25	24	23	25	29	29	28	29	20	19	20	22	33	30	30	32
Sulfate	mg/L	39	43	41	41	19	22	21	20	18	23	25	23	8.8	11	8.8	7.7	38	43	44	43
Total Dissolved Solids	mg/L	490	490	490	470	380	410	390	380	410	420	400	400	300	310	320	290	480	510	500	480
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.34	0.42	0.27	0.51	0.05 U	0.05 U	0.05 U	0.05 U	1.3	1.3	1.4	1.4
Total Organic Carbon	mg/L	2	1.8	1.7	2 B	1.2	1.1	1	1.1 B	1.9	1.8	2.1	1.9 B	1.2	1.1	1 U	1.2 B	1.9	1.8	2.1	2.1 B
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0006	0.00044	0.00049	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0063	0.0045	0.0058	0.0062	0.0061	0.0062	0.0081	0.0071	0.0049	0.0041	0.0069	0.005	0.058	0.023	0.02	0.026	0.0034	0.0034	0.0044	0.0043
Barium	mg/L	0.035	0.032	0.028	0.032	0.025	0.025	0.024	0.025	0.04	0.033	0.041	0.034	0.04	0.062	0.053	0.058	0.024	0.023	0.022	0.023
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.00043	0.0004 U	0.0004 U	0.0004	0.0004 U	0.00046	0.0004 U	0.0004 U	0.0004 U	0.0021	0.0041	0.0015	0.0027	0.0013	0.0012	0.0015	0.0016
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.0033	0.002 U	0.0024	0.002 U	0.002 U	0.002 U	0.29	0.0053	0.0075	0.0032	0.0042	0.026	0.01	0.0077	0.045	0.053	0.048	0.05
Iron	mg/L	0.3 U	0.3	0.31	0.33	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.32	0.36	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.021	0.0017	0.0035	0.0033	0.0034	0.0059	0.0028	0.0054	0.00049	0.00061	0.0005	0.00055
Manganese	mg/L	0.12	0.11	0.11	0.1	0.14	0.13	0.14	0.14	0.02 U	0.02 U	0.02 U	0.02 U	0.081	0.093	0.086	0.091	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0034	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0013	0.001 U	0.0011	0.0013
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004	0.0048
Zinc	mg/L	0.1	0.14	0.13	0.076	0.16	0.096	0.037	0.021	0.34	1	0.24	0.65	2.6	1.1	0.62	1.2	0.083	0.12	0.098	0.073

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit

Table 3A. Volatile Organic Compound Results - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	C1S				E1D				E1S				E2S				E4S				N1SR			
	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1 - Trichloroethane	0.72	0.52	0.72	0.61	0.2 U	0.2 U	0.2 U	0.2 U	0.33	0.23	0.38	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorodibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis - 1,2 - Dichloroethylene	0.42	0.37	0.51	0.38	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethylene	0.24	0.21	0.27	0.25	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	6.2	4.8	5.5	4.3	0.5 U	0.5 U	0.5 U	0.5 U	2.1	1.7	2.3	2	1.2	1.5	2.2	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	0.02 U	0.02 U	0.02 U	0.02U	0.25	0.16	0.22	0.02 U	0.02 U	0.02 U	0.02 U	0.02U	0.28	0.18	0.22	0.18	0.02 U	0.02 U	0.02 U	0.032	0.02 U	0.02 U	0.02 U	0.02U

Notes:
All concentrations presented in micrograms per liter (µg/L)
— = well was not sampled
U = not detected above reporting limit
J = value estimated

Table 3A. Volatile Organic Compound Results - Aquifer 1
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Parameter	N2S				N3S				NE1S				S10S				S11S				SE1D				SE1S			
	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
1,1 - Dichloroethane	0.8	0.59	0.87	0.78	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1 - Trichloroethane	0.63	0.54	0.78	0.68	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.61	0.4	0.68	0.46	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorodibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.24	0.2 U	0.26	0.21	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.81	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	2	1.9	2.8	2.4	1.2	1	1.2	1.1	0.5 U	0.5 U	0.5 U	0.5 U	6.2	4.5	6.2	4.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	0.02 U	0.02 U	0.039	0.052	0.02 U	0.02 U	0.02 U	0.02U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02U

Notes:
All concentrations presented in micrograms per liter (µg/L)
— = well was not sampled
U = not detected above reporting limit
J = value estimated

Table 3B. Volatile Organic Compound Results - Aquifer 2
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Parameter	E2D				E3D				E4D				N1D				N2D				N3D			
	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1 - Trichloroethane	0.38	0.25	0.42	0.38	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.27	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorodibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.88	0.59	0.73	0.68	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans - 1,2 - Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	2.2	1.6	2.5	1.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.57	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	28	25	25	20	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.021	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.038	0.026	0.044	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
All concentrations presented in micrograms per liter (µg/L)
— = well was not sampled

U = not detected above reporting limit
J = value estimated

Table 3B. Volatile Organic Compound Results - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	N5D				N5S				NE1D				S11D				W1D				W2S			
	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorodibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans - 1,2 - Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
All concentrations presented in micrograms per liter (µg/L)
— = well was not sampled

U = not detected above reporting limit
J = value estimated

Table 3C. Volatile Organic Compound Results - Water Supply Wells
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Coupeville Solid Waste Facility, Island County, Washington

Parameter	DNR				DOT				S7				STP				WR1			
	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.23	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorodibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.52	0.5 U	0.5 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.67	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans - 1,2 - Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
All concentrations presented in micrograms per liter (µg/L)
U = not detected above reporting limit
J = value estimated

Table 4. Additional VOC Well Results
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E5D				E6D				E7D				E8D				E9D	E10D
	Units	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q116	Q216	Q316	Q416	Q416	Q416
Field Measurements																			
Dissolved Oxygen	mg/L	0.45	0.84	1.09	0.54	0.56	0.69	0.91	0.67	1.01	0.95	0.88	0.84	0.73	0.84	1.48	1.17	0.37	0.51
ORP	mV	-123	-61.1	-131	-150	-66.1	-55.9	-202	-185	33.4	28.7	-51	-66	-106	-16.7	-92	-60	-170	-137.9
pH	SU	7.28	6.8	7.19	7.04	7.78	7.62	7.53	7.34	6.71	6.71	6.49	6.4	7.45	7.23	7.26	7	8.74	7.93
Specific Conductivity	µS/cm	970	1063	1071	1098	695	708	699	690	1558	1672	1680	1700	541	580	576	576	620	1090
Temperature	deg-C	11.06	12.61	13.68	12.02	13.7	15.56	18.18	14.79	13.97	16.26	17.57	15.29	9.92	11.17	12.69	11.22	10.55	10.37
Turbidity	NTU	5.4	2.01	1.88	1.25	1.27	1.38	1.3	0.84	1.27	1.72	0.7	0.95	8.63	4.51	3.1	1.54	56.07	11.23
Volitile Organic Compounds																			
1,1 - Dichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.4	2.1	2.6	2.8	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	3	0.54	1.8	3.3 B	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,1 - Trichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1	0.75	1.1	0.96	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	µg/L	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	µg/L	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2 - Dichlorobenzene (ortho)	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2 - Dichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	µg/L	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	—	2 U	2 U	2 U	2 U	2 U
1,4 - Dichlorobenzene (para)	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	µg/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
2-Hexanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acrylonitrile	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.25	0.28	0.2 U	0.2 U	0.37	0.2 U	0.2 U	0.29	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorodibromomethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.27	0.2 U	0.29	0.26	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	1.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
cis - 1,2 - Dichloroethylene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.61	0.67	0.88	0.92	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	µg/L	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U
m, p-Xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans - 1,2 - Dichloroethylene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethylene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	65	62	79	71	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	µg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.035	0.024	0.063	0.053	8.5	5.4	6.4	4.5	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

All concentrations presented in micrograms per liter (µg/L)

Edge = Edge Analytical

TA = TestAmerica

— = well was not sampled

U = not detected above reporting limit

J = value estimated

Table 5. Volatile Organic Compound Detections
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
1,1,1-Trichloroethane	C1S	1	2/1/2016	0.76	*
			4/26/2016	0.52	*
			7/26/2016	0.76	*
			10/28/2016	0.61	*
	E1S	1	2/2/2016	0.33	*
			4/27/2016	0.23	*
			7/27/2016	0.38	*
	N2S	1	2/4/2016	0.63	*
			4/28/2016	0.54	*
			7/27/2016	0.78	*
			10/26/2016	0.68	*
	S10S	1	2/2/2016	0.61	*
			4/28/2016	0.4	*
			7/26/2016	0.68	*
			10/26/2016	0.46	*
	E2D	2	2/2/2016	0.38	*
			4/26/2016	0.25	*
			7/26/2016	0.42	*
			10/28/2016	0.38	*
	E7D	2	2/2/2016	1	*
			4/27/2016	0.75	*
			7/26/2016	1.1	*
			10/27/2016	0.96	*
1,1-Dichloroethane	N2S	1	2/4/2016	0.8	*
			4/28/2016	0.59	*
			7/27/2016	0.87	*
			10/26/2016	0.78	*
	E7D	2	2/2/2016	2.4	*
			4/27/2016	2.1	*
			7/26/2016	2.6	*
			10/27/2016	2.8	*
1,1-Dichloroethylene	C1S	1	2/1/2016	0.14	*
			10/28/2016	0.14 B	*
	E7D	2	2/2/2016	3	*
			4/27/2016	0.54	*
			7/26/2016	1.8	*
			10/27/2016	3.3 B	*
Carbon Disulfide	E4D	2	4/26/2016	0.27	*
	E6D	2	2/2/2016	0.25	*
			4/28/2016	0.28	*
	E7D	2	2/2/2016	0.37	*
			10/27/2016	0.29	*
	STP	3	2/4/2016	0.2	*
			4/27/2016	0.23	*

Table 5. Volatile Organic Compound Detections
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
Chloroform	S10S	1	2/2/2016	0.24	*
			7/26/2016	0.26	*
			10/26/2016	0.21	*
	E7D	2	2/2/2016	0.27	*
			7/26/2016	0.29	*
			10/27/2016	0.26	*
cis-1,2-Dichloroethylene	C1S	1	2/1/2016	0.42	*
			4/26/2016	0.37	*
			7/26/2016	0.5	*
			10/28/2016	0.38	*
m, p-Xylene	N3S	1	4/25/2016	0.81	*
Methylene Chloride	DNR	2	10/26/2016	0.52	*
	DOT	2	10/26/2016	0.7	*
	E2D	2	2/2/2016	0.88	*
			4/26/2016	0.59	*
			7/26/2016	0.73	*
			10/28/2016	0.68	*
	E7D	2	2/2/2016	0.61	*
			4/27/2016	0.67	*
			7/26/2016	0.88	*
			10/27/2016	0.92	*
	STP	3	10/27/2016	0.67	*
Trichloroethylene	C1S	1	2/1/2016	0.25	*
			4/26/2016	0.21	*
			7/26/2016	0.27	*
			10/28/2016	0.25	*
Trichlorofluoromethane	C1S	1	2/1/2016	6.2	*
			4/26/2016	4.8	*
			7/26/2016	5.8	*
			10/28/2016	4.8	*
	E1S	1	2/2/2016	2.1	*
			4/27/2016	1.7	*
			7/27/2016	2.3	*
			10/26/2016	2	*
	E2S	1	2/2/2016	1.2	*
			4/26/2016	1.5	*
			7/26/2016	2.2	*
			10/28/2016	1.4	*
	N2S	1	2/4/2016	2	*
			4/28/2016	1.9	*
			7/27/2016	2.8	*
			10/26/2016	2.4	*
	N3S	1	2/1/2016	1.2	*
			4/25/2016	1	*
			7/26/2016	1.2	*
			10/24/2016	1.1	*

Table 5. Volatile Organic Compound Detections
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
Trichlorofluoromethane	S10S	1	2/2/2016	6.2	*
			4/28/2016	4.5	*
			7/26/2016	6.2	*
			10/26/2016	4.3	*
	E2D	2	2/2/2016	2.2	*
			4/26/2016	1.6	*
			7/26/2016	2.5	*
			10/28/2016	1.8	*
	E7D	2	2/2/2016	65	*
			4/27/2016	62	*
			7/26/2016	79	*
			10/27/2016	71	*
	N2D	2	10/26/2016	0.57	*
Vinyl chloride	E1D	1	2/2/2016	0.25	0.358
			4/28/2016	0.16	0.268
			7/27/2016	0.22	0.405
			10/27/2016	0.2	0.37
	E2S	1	2/2/2016	0.28	*
			4/26/2016	0.18	*
			7/26/2016	0.22	*
			10/28/2016	0.18	*
	E4S	1	10/25/2016	0.032	*
	N2S	1	2/4/2016	—	0.038
			4/28/2016	—	0.034
			7/27/2016	0.039	0.11
			10/26/2016	0.052	0.12
	S10S	1	2/2/2016	—	0.025
			4/28/2016	—	0.012
			7/26/2016	—	0.012
	E2D	2	2/2/2016	28	*
			4/26/2016	25	*
			7/26/2016	25	*
			10/28/2016	20	*
	E4D	2	10/25/2016	0.021	*
	E6D	2	2/2/2016	0.035	0.075
			4/28/2016	0.024	0.065
			7/27/2016	0.063	0.094
			10/27/2016	0.053	0.115
	E7D	2	2/2/2016	8.5	*
			4/27/2016	5.4	*
			7/26/2016	6.4	*
			10/27/2016	4.5	*
	E8D	2	2/3/2016	—	0.015
			4/28/2016	—	0.011

Table 5. Volatile Organic Compound Detections
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
Vinyl chloride	N2D	2	2/4/2016	—	0.061
			4/28/2016	0.038	0.055
			7/27/2016	0.026	0.088
			10/26/2016	0.044	0.085
	N5D	2	2/3/2016	—	0.025
			4/28/2016	—	0.02
			7/26/2016	—	0.028
			10/27/2016	—	0.03

Notes:
All units measured in µg/L
* = not analyzed
— = not detected above reporting limit
J = estimated value, see Data Validation Report
WSW = Water Supply Well
Wells E5D, E6D, E7D & E8D represent additional VOC wells

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Field Measurements							
pH (SU)	<6.5 or > 8.5	-	<6.5 or > 8.5	C1S	1	4/26/2016	5.98
						10/28/2016	6.40
				N1SR	1	2/3/2016	6.25
						4/25/2016	6.35
						10/24/2016	6.17
				N2S	1	10/26/2016	6.47
				S10S	1	10/26/2016	6.42
				E2D	2	10/28/2016	6.45
				STP	WSW	7/26/2016	8.88
Specific Conductivity (µS/cm)	-	-	700[a]	C1S	1	2/1/2016	1369
						4/26/2016	1510
						7/26/2016	1561
						10/28/2016	1245
				E1D	1	2/2/2016	1628
						4/28/2016	1675
						7/27/2016	1690
						10/27/2016	1700
				E1S	1	2/2/2016	1135
						4/27/2016	1145
						7/27/2016	1136
						10/26/2016	1158
				E2S	1	2/2/2016	1332
						4/26/2016	1361
						7/26/2016	1339
						10/28/2016	1335
				E4S	1	2/2/2016	1159
						4/26/2016	1181
						7/25/2016	1137
						10/25/2016	1158
				N2S	1	2/4/2016	1500
						4/28/2016	1610
						7/27/2016	1598
						10/26/2016	1590
				N3S	1	2/1/2016	1065
						4/25/2016	1074
						7/26/2016	1061
						10/24/2016	1063
				NE1S	1	2/2/2016	783
						4/27/2016	783
						7/25/2016	809
						10/25/2016	811
				S10S	1	2/2/2016	1424
						4/28/2016	1440
						7/26/2016	1412
						10/26/2016	1420
				S11S	1	2/3/2016	892
						4/26/2016	916
						7/27/2016	892
						10/24/2016	904

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Specific Conductivity (µS/cm) (cont.)	-	-	700[a]	SE1D	1	2/3/2016	925
						4/27/2016	936
						7/26/2016	936
						10/28/2016	930
				SE1S	1	2/3/2016	796
						4/27/2016	843
						7/26/2016	843
						10/28/2016	845
				E2D	2	2/2/2016	1761
						4/26/2016	1795
						7/26/2016	1723
						10/28/2016	1720
				E3D	2	2/3/2016	711
						4/25/2016	742
						7/25/2016	761
						10/28/2016	751
				N1D	2	2/1/2016	1500
						4/25/2016	1510
						7/26/2016	1519
						10/24/2016	1520
				N2D	2	2/4/2016	1141
						4/28/2016	1232
						7/27/2016	1209
						10/26/2016	1238
				N5D	2	2/3/2016	1426
						4/28/2016	1467
						7/26/2016	1441
						10/27/2016	1452
				N5S	2	2/4/2016	711
						4/28/2016	764
						7/26/2016	746
						10/27/2016	751
				S11D	2	2/3/2016	910
						4/26/2016	935
						7/27/2016	925
						10/24/2016	928
				W1D	2	2/1/2016	968
						4/25/2016	964
						7/26/2016	968
						10/24/2016	979
				W2S	2	2/3/2016	914
						4/25/2016	953
						7/25/2016	949
						10/25/2016	928
				DNR	WSW	2/1/2016	824
						4/27/2016	861
						7/27/2016	849
						10/26/2016	858
				S7	WSW	2/1/2016	702
						4/26/2016	757
						7/25/2016	747
						10/25/2016	723

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Specific Conductivity (µS/cm) (cont.)	-	-	700[a]	WR1	WSW	2/1/2016	839
						4/25/2016	840
						7/25/2016	856
						10/25/2016	846
General Chemistry							
Sulfate (mg/L)	250	-	250	C1S	1	2/1/2016	340
						4/26/2016	340
						7/26/2016	350
Total Dissolved Solids (mg/L)	500	-	500	C1S	1	2/1/2016	970
						4/26/2016	1100
						7/26/2016	1100
						10/28/2016	850
				E1D	1	2/2/2016	960
						4/28/2016	930
						7/27/2016	960
						10/27/2016	970
				E1S	1	2/2/2016	660
						4/27/2016	660
						7/27/2016	650
						10/26/2016	650
				E2S	1	2/2/2016	800
						4/26/2016	810
						7/26/2016	800
						10/28/2016	810
				E4S	1	2/2/2016	670
						4/26/2016	700
						7/25/2016	670
						10/25/2016	680
				N2S	1	2/4/2016	960
						4/28/2016	970
						7/27/2016	970
						10/26/2016	960
				N3S	1	2/1/2016	630
						4/25/2016	640
						7/26/2016	630
						10/24/2016	600
				NE1S	1	7/25/2016	510
				S10S	1	2/2/2016	870
						4/28/2016	840
						7/26/2016	880
						10/26/2016	850
				S11S	1	2/3/2016	510
						4/26/2016	520
						10/24/2016	510
				SE1D	1	2/3/2016	520
						4/27/2016	520
						7/26/2016	520
						10/28/2016	520
				E2D	2	2/2/2016	1000
						4/26/2016	1100
						7/26/2016	1000
						10/28/2016	1000

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Total Dissolved Solids (mg/L) (cont.)	500	-	500	N1D	2	2/1/2016	890
						4/25/2016	910
						7/26/2016	900
						10/24/2016	890
				N2D	2	2/4/2016	690
						4/28/2016	690
						7/27/2016	670
						10/26/2016	690
				N5D	2	2/3/2016	810
						4/28/2016	840
						7/26/2016	820
						10/27/2016	830
				S11D	2	2/3/2016	520
						4/26/2016	540
						7/27/2016	520
						10/24/2016	510
				W1D	2	2/1/2016	530
						4/25/2016	550
						7/26/2016	540
						10/24/2016	540
				W2S	2	2/3/2016	520
						4/25/2016	560
						7/25/2016	560
						10/25/2016	540
				WR1	WSW	4/25/2016	510
Total Nitrate/Nitrite (mg/L)	10	10	-	E1S	1	2/2/2016	12
						4/27/2016	12
						7/27/2016	13
						10/26/2016	12
				S10S	1	2/2/2016	42
						4/28/2016	45
						7/26/2016	46
						10/26/2016	43
Metals							
Arsenic (mg/L)	0.00005	0.01	-	C1S	1	2/1/2016	0.0016
						4/26/2016	0.0017
						7/26/2016	0.0035
						10/28/2016	0.0022
				E1D	1	2/2/2016	0.0050
						4/28/2016	0.0050
						7/27/2016	0.0061
						10/27/2016	0.0056
				E1S	1	2/2/2016	0.0017
						4/27/2016	0.0017
						7/27/2016	0.0030
						10/26/2016	0.0026
				E2S	1	2/2/2016	0.0020
						4/26/2016	0.0019
						7/26/2016	0.0031
						10/28/2016	0.0022

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Arsenic (mg/L) (cont.)	0.00005	0.01	-	E4S	1	2/2/2016	0.0032
						4/26/2016	0.0028
						7/25/2016	0.0040
						10/25/2016	0.0040
				N1SR	1	2/3/2016	0.0022
						4/25/2016	0.0020
						7/26/2016	0.0036
						10/24/2016	0.0026
				N2S	1	2/4/2016	0.0019
						4/28/2016	0.0015
						7/27/2016	0.0030
						10/26/2016	0.0028
				N3S	1	2/1/2016	0.0028
						4/25/2016	0.0027
						7/26/2016	0.0042
						10/24/2016	0.0032
				NE1S	1	2/2/2016	0.0032
						4/27/2016	0.0029
						7/25/2016	0.0041
						10/25/2016	0.0036
				S10S	1	2/2/2016	0.0025
						4/28/2016	0.0024
						7/26/2016	0.0035
						10/26/2016	0.0033
				S11S	1	2/3/2016	0.0067
						4/26/2016	0.0058
						7/27/2016	0.0069
						10/24/2016	0.0067
				SE1D	1	2/3/2016	0.0120
						4/27/2016	0.0110
						7/26/2016	0.0130
						10/28/2016	0.0120
				SE1S	1	2/3/2016	0.0061
						4/27/2016	0.0052
						7/26/2016	0.0064
						10/28/2016	0.0059
				E2D	2	2/2/2016	0.0027
						4/26/2016	0.0024
						7/26/2016	0.0039
						10/28/2016	0.0031
				E3D	2	2/3/2016	0.0070
						4/25/2016	0.0066
						7/25/2016	0.0075
						10/28/2016	0.0067
				E4D	2	2/2/2016	0.0150
						4/26/2016	0.0140
						7/25/2016	0.0160
						10/25/2016	0.0160
				N1D	2	2/1/2016	0.0057
						4/25/2016	0.0053
						7/26/2016	0.0067
						10/24/2016	0.0051

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Arsenic (mg/L) (cont.)	0.00005	0.01	-	N2D	2	2/4/2016	0.0037
						4/28/2016	0.0033
						7/27/2016	0.0044
						10/26/2016	0.0042
				N3D	2	2/1/2016	0.0084
						4/25/2016	0.0081
						7/26/2016	0.0095
						10/24/2016	0.0080
				N5D	2	2/3/2016	0.0041
						4/28/2016	0.0039
						7/26/2016	0.0049
						10/27/2016	0.0042
				N5S	2	2/4/2016	0.0036
						4/28/2016	0.0034
						7/26/2016	0.0042
						10/27/2016	0.0036
				NE1D	2	2/2/2016	0.0078
						4/27/2016	0.0073
						7/25/2016	0.0090
						10/25/2016	0.0079
				S11D	2	2/3/2016	0.0089
						4/26/2016	0.0081
						7/27/2016	0.0090
						10/24/2016	0.0089
				W1D	2	2/1/2016	0.0079
						4/25/2016	0.0081
						7/26/2016	0.0092
						10/24/2016	0.0090
				W2S	2	2/3/2016	0.0026
						4/25/2016	0.0022
						7/25/2016	0.0030
						10/25/2016	0.0028
				DNR	WSW	2/1/2016	0.0063
						4/27/2016	0.0045
						7/27/2016	0.0058
						10/26/2016	0.0062
				DOT	WSW	2/1/2016	0.0061
						4/26/2016	0.0062
						7/26/2016	0.0081
						10/26/2016	0.0071
				S7	WSW	2/1/2016	0.0049
						4/26/2016	0.0041
						7/25/2016	0.0069
						10/25/2016	0.0050
				STP	WSW	2/4/2016	0.0580
						4/27/2016	0.0230
						7/26/2016	0.0200
						10/27/2016	0.0260
				WR1	WSW	2/1/2016	0.0034
						4/25/2016	0.0034
						7/25/2016	0.0044
						10/25/2016	0.0043

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Iron (mg/L)	0.3	-	0.3	N1D	2	2/1/2016	0.43
						4/25/2016	0.34
						7/26/2016	0.42
						10/24/2016	0.31
				N2D	2	10/26/2016	1.30
				S11D	2	7/27/2016	0.32
				DNR	WSW	7/27/2016	0.31
						10/26/2016	0.33
				STP	WSW	4/27/2016	0.32
						7/26/2016	0.36
Manganese (mg/L)	0.05	-	0.05	E2S	1	2/2/2016	0.380
						4/26/2016	0.350
						7/26/2016	0.350
						10/28/2016	0.370
				S10S	1	2/2/2016	0.081
						4/28/2016	0.069
						7/26/2016	0.060
						10/26/2016	0.056
				S11S	1	2/3/2016	0.200
						4/26/2016	0.200
						7/27/2016	0.200
						10/24/2016	0.200
				SE1D	1	2/3/2016	0.200
						4/27/2016	0.200
						7/26/2016	0.190
						10/28/2016	0.190
				E2D	2	2/2/2016	0.066
						4/26/2016	0.061
						7/26/2016	0.059
						10/28/2016	0.063
				E3D	2	2/3/2016	0.290
						4/25/2016	0.260
						7/25/2016	0.076
						10/28/2016	0.240
				E4D	2	2/2/2016	0.078
						4/26/2016	0.066
						7/25/2016	0.053
						10/25/2016	0.062
				N1D	2	2/1/2016	0.290
						4/25/2016	0.250
						7/26/2016	0.210
						10/24/2016	0.250
				N5D	2	2/3/2016	0.240
						4/28/2016	0.240
						7/26/2016	0.230
						10/27/2016	0.240
				S11D	2	2/3/2016	0.170
						4/26/2016	0.160
						7/27/2016	0.160
						10/24/2016	0.160

Table 6. WAC 173-200 and Federal MCL Exceedences
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Manganese (mg/L) (cont.)	0.05	-	0.05	W1D	2	2/1/2016	0.160
						4/25/2016	0.150
						7/26/2016	0.140
						10/24/2016	0.150
				DNR	WSW	2/1/2016	0.120
						4/27/2016	0.110
						7/27/2016	0.110
						10/26/2016	0.100
				DOT	WSW	2/1/2016	0.140
						4/26/2016	0.130
						7/26/2016	0.140
						10/26/2016	0.140
				STP	WSW	2/4/2016	0.081
						4/27/2016	0.093
						7/26/2016	0.086
						10/27/2016	0.091
Volatile Organic Compounds							
Vinyl Chloride (µg/L)	0.02	2	-	E1D	1	2/2/2016	0.25
						4/28/2016	0.16
						7/27/2016	0.22
						10/27/2016	0.20
				E2S	1	2/2/2016	0.28
						4/26/2016	0.18
						7/26/2016	0.22
						10/28/2016	0.18
				E4S	1	10/25/2016	0.03
				N2S	1	7/27/2016	0.04
						10/26/2016	0.05
				E2D	2	2/2/2016	28.00
						4/26/2016	25.00
						7/26/2016	25.00
						10/28/2016	20.00
				E4D	2	10/25/2016	0.02
				N2D	2	4/28/2016	0.04
						7/27/2016	0.03
						10/26/2016	0.04

Notes:

[a] = WAC 246-290-310 standard

mg/L = miligrams per liter

µg/L = micrograms per liter

MCL = Federal Maximum Contaminant Level

WSW = Water Supply Well

Table 7. Short and Long Term Statisitics for Select Parameters
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Specific Conductivity (µS/cm)	1	C1S	7	0	964	1561	1260.1	15	2.103	1.78	no trend	43	0	1.083	1826	1216.8	44	0.45	32.64	no trend
	1	E1D	8	0	163	1700	1472.5	18	2.103	1.77	no trend	119	0	1.97	2490	1225	2231	5.122	0	increasing
	1	E1S	8	0	1119	1158	1140.4	4	0.371	35.53	no trend	119	0	1.353	2080	1192.3	1297	2.977	0.15	increasing
	1	E2S	11	0	1332	1361	1346.3	-8	-0.55	29.12	no trend	117	0	1.404	1630	1086.1	3382	7.965	0	increasing
	1	E4S	8	0	1064	1181	1124.6	18	2.103	1.77	no trend	34	0	1.09	1238	979.5	73	1.067	14.29	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	860	1249	1141.6	N/A	N/A	N/A	N/A
	1	N1SR	8	0	405	504	441.3	12	1.361	8.68	no trend	44	0	0.442	608	479.7	-426	-4.299	0	decreasing
	1	N2S	6	0	159	1610	1102.8	N/A	N/A	N/A	N/A	48	0	1.68	1900	1366.2	N/A	N/A	N/A	N/A
	1	N3S	8	0	1056	1128	1079.1	-14	-1.608	5.39	no trend	117	0	0.974	1365	804.2	4015	9.456	0	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	758	893	796.4	-1	0	50	no trend
	1	NE1S	8	0	734	811	775.9	23	2.743	0.3	increasing	57	0	0.73	1004	789.4	-207	-1.418	7.81	no trend
	1	S10S	8	0	1367	1440	1408.4	10	1.113	13.28	no trend	58	0	1.206	2400	1505.8	-838	-5.615	0	decreasing
	1	S11S	8	0	885	916	898.5	9	0.99	16.12	no trend	53	0	0.739	1033	848.8	25	0.184	42.7	no trend
	1	SE1D	8	0	916	938	929.9	7	0.748	22.72	no trend	54	0	0.925	1054	860.6	357	2.656	0.4	increasing
	1	SE1S	8	0	796	845	832.1	16	1.885	2.97	no trend	54	0	0.859	966	785.9	-347	-2.581	0.49	decreasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	662	694	678	N/A	N/A	N/A	N/A
	2	E2D	11	0	180	1820	1105.5	-2	-0.079	46.87	no trend	118	0	1.64	2280	1057.2	2629	6.113	0	increasing
	2	E3D	8	0	711	761	738.4	10	1.113	13.28	no trend	63	0	0.603	846	693.1	664	3.932	0	increasing
	2	E4D	11	0	524	559	544.4	27	2.043	2.05	no trend	36	0	0.629	933	547	-209	-2.834	0.23	decreasing
	2	N1D	8	0	155	1530	1341.8	11	1.237	10.8	no trend	118	0	1.292	1850	1192	3541	8.234	0	increasing
	2	N2D	8	0	1141	1238	1198.4	14	1.608	5.39	no trend	123	0	1.205	1516	869.5	4715	10.305	0	increasing
	2	N3D	8	0	6.17	645	555.4	8	0.866	19.33	no trend	117	0	0.444	720	519.8	3226	7.597	0	increasing
	2	N5D	8	0	1411	1467	1442.5	5	0.495	31.04	no trend	57	0	1.415	1471	1288.9	620	4.261	0	increasing
	2	N5S	8	0	711	764	744.8	3	0.247	40.23	no trend	57	0	0.792	917	685.7	-204	-1.397	8.12	no trend
	2	NE1D	8	0	637	690	667.5	21	2.474	0.67	increasing	57	0	0.542	763	597.5	229	1.57	5.83	no trend
	2	S11D	8	0	887	935	916.9	10	1.113	13.28	no trend	55	0	0.761	1065	872.5	-73	-0.523	30.06	no trend
	2	W1D	8	0	941	996	971.4	-5	-0.495	31.04	no trend	115	0	0.804	1159	893	1656	4	0	increasing
	2	W2S	8	0	901	953	928.9	10	1.113	13.28	no trend	56	0	0.861	1018	840.8	507	3.576	0.02	increasing
	WSW	DNR	8	0	824	861	849.1	9	0.99	16.12	no trend	64	0	0.703	969	775	584	3.378	0.04	increasing
	WSW	DOT	8	0	644	683	663.8	21	2.474	0.67	increasing	102	0	0.51	712	567.1	2449	7.078	0	increasing
	WSW	S7	8	0	681	757	717.4	14	1.608	5.39	no trend	123	0	0.55	1920	601.4	3495	7.638	0	increasing
	WSW	STP	8	0	511	579	553.1	6	0.619	26.81	no trend	82	2	0	772	546.3	-184	-0.733	23.19	no trend
	WSW	WR1	8	0	819	861	842.5	8	0.866	19.33	no trend	61	0	7.65	865	761.1	697	4.331	0	increasing

Table 7. Short and Long Term Statisitics for Select Parameters
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Nitrate (mg/L)	1	C1S	7	0	4.6	8.5	6.42	3	0.3	38.2	no trend	44	0	1.6	13.2	6.25	407	4.107	0	increasing
	1	E1D	8	3	<0.00310	0.5	0.1507	-23	-2.743	0.3	decreasing	119	42	<0.000030	3.19	0.722	-1939	-4.451	0	decreasing
	1	E1S	8	0	11.8	13	12.1	10	1.122	13.09	no trend	119	13	<0.000030	13	3.71	2530	5.809	0	increasing
	1	E2S	8	0	6.27	8.7	7.96	27	3.242	0.06	increasing	116	45	<0.000030	8.7	1.219	-1662	-3.964	0	decreasing
	1	E4S	8	0	0.45	0.86	0.623	25	2.992	0.14	increasing	34	0	0.11	3.85	0.446	274	4.049	0	increasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	0.2	8.7	4.33	N/A	N/A	N/A	N/A
	1	N1SR	8	0	2.28	6	3.91	10	1.113	13.28	no trend	44	0	2.27	11.5	6.62	-420	-4.238	0	decreasing
	1	N2S	6	0	5.4	6.3	5.86	N/A	N/A	N/A	N/A	49	17	<0.000030	6.3	1.289	N/A	N/A	N/A	N/A
	1	N3S	8	0	5.14	6.1	5.8	17	1.995	2.3	no trend	117	5	<0.2	6.49	2.307	4988	11.748	0	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	<0.000030	<0.2	0.0205	0	0	50	no trend
	1	NE1S	8	0	4.7	6.44	5.44	-6	-0.619	26.81	no trend	57	0	0.03	8.39	5.1	959	6.595	0	increasing
	1	S10S	8	0	34	46.7	42.95	6	0.619	26.81	no trend	58	0	0.02	86	34.5	214	1.429	7.65	no trend
	1	S11S	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	53	51	<0.00070	0.19	0.014	N/A	N/A	N/A	N/A
	1	SE1D	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	54	47	<0.00070	0.95	0.0394	-113	-0.836	20.16	no trend
	1	SE1S	8	0	1.1	1.3	1.181	15	1.745	4.05	no trend	54	1	<0.012	1.32	0.648	1152	8.588	0	increasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	0.8	1.1	0.967	N/A	N/A	N/A	N/A
	2	E2D	8	1	<0.0206	4.3	2.95	24	2.846	0.22	increasing	114	14	<0.00070	4.3	0.698	-64	-0.154	43.87	no trend
	2	E3D	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	63	60	<0.000030	0.18	0.015	-848	-5.026	0	decreasing
	2	E4D	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	34	34	<0.0028	<0.10	0.0114	N/A	N/A	N/A	N/A
	2	N1D	8	7	<0.00110	0.51	0.0749	N/A	N/A	N/A	N/A	119	77	<0.000030	0.6	0.103	-3820	-8.772	0	decreasing
	2	N2D	8	0	2.15	2.9	2.498	17	1.995	2.3	no trend	124	34	<0.000030	2.9	0.6	-888	-1.916	2.77	no trend
	2	N3D	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	116	95	<0.000030	0.7	0.073	-3007	-7.174	0	decreasing
	2	N5D	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	57	54	<0.00070	0.18	0.0118	N/A	N/A	N/A	N/A
	2	N5S	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	57	39	<0.00190	0.21	0.01753	-97	-0.661	25.43	no trend
	2	NE1D	8	4	<0.00310	0.093	0.0399	13	1.485	6.88	no trend	57	27	<0.00250	3.86	0.0929	83	0.565	28.62	no trend
	2	S11D	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	54	51	<0.00070	0.16	0.01355	N/A	N/A	N/A	N/A
	2	W1D	8	7	<0.00310	0.28	0.0473	N/A	N/A	N/A	N/A	115	78	<0.000030	0.4	0.086	-3501	-8.461	0	decreasing
	2	W2S	8	0	3.3	3.9	3.615	2	0.124	45.08	no trend	56	0	0.18	4.4	3.125	831	5.866	0	increasing
	WSW	DNR	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	64	30	<0.000030	0.56	0.0573	-911	-5.274	0	decreasing
	WSW	DOT	8	8	<0.00310	<0.10	0.01363	N/A	N/A	N/A	N/A	103	99	<0.000030	0.3	0.051	-1969	-5.609	0	decreasing
	WSW	S7	8	2	<0.0206	0.51	0.2713	13	1.496	6.73	no trend	124	94	<0.000030	1.76	0.1039	-3342	-7.217	0	decreasing
	WSW	STP	8	7	<0.00310	0.15	0.0311	N/A	N/A	N/A	N/A	82	77	<0.000030	0.24	0.0414	-1405	-5.624	0	decreasing
	WSW	WR1	8	0	1.3	1.44	1.375	0	0	50	no trend	61	3	<0.012	1.63	0.926	867	5.389	0	increasing

Table 7. Short and Long Term Statisitics for Select Parameters
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Sulfate (mg/L)	1	C1S	7	0	148	350	265.7	10	1.367	8.58	no trend	44	0	32	434	237.6	272	2.741	0.31	increasing
	1	E1D	8	0	45	80	52.9	14	1.608	5.39	no trend	119	0	22	109	57.2	2131	4.892	0	increasing
	1	E1S	8	0	39	42	40.6	-9	-0.99	16.12	no trend	119	0	17	59	32.94	4211	9.67	0	increasing
	1	E2S	8	0	59	65	62.5	3	0.247	40.23	no trend	116	0	8	76	28.8	2425	5.784	0	increasing
	1	E4S	8	0	36	45	40.2	15	1.745	4.05	no trend	34	0	24	63	34.86	396	5.859	0	increasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	26	102	75.1	N/A	N/A	N/A	N/A
	1	N1SR	8	0	10.9	18	14.23	20	2.351	0.94	increasing	44	0	10	37	22.7	-615	-6.212	0	decreasing
	1	N2S	6	0	100	130	111.7	N/A	N/A	N/A	N/A	49	0	3	130	53.2	N/A	N/A	N/A	N/A
	1	N3S	8	0	41	45	43.6	1	0	50	no trend	117	0	15	56	41.2	1835	4.321	0	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	70	91	80.3	-22	-1.878	3.02	no trend
	1	NE1S	8	0	55	71	61.4	24	2.846	0.22	increasing	57	0	34	97	69.6	-166	-1.136	12.8	no trend
	1	S10S	8	0	89	120	101.1	16	1.856	3.17	no trend	58	0	33	131	97.7	-292	-1.952	2.55	no trend
	1	S11S	8	0	27	31	29.35	6	0.619	26.81	no trend	53	0	25	32	28.1	734	5.625	0	increasing
	1	SE1D	8	0	25	28	26.3	-5	-0.495	31.04	no trend	54	0	21	37	25.2	782	5.828	0	increasing
	1	SE1S	8	0	37	39	38	6	0.623	26.65	no trend	54	0	26	61	38.3	-120	-0.888	18.73	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	43	49	45.7	N/A	N/A	N/A	N/A
	2	E2D	8	0	17.7	66	52.5	23	2.743	0.3	increasing	114	0	0.8	66	26.3	1088	2.662	0.39	increasing
	2	E3D	8	0	15	16	15.8	0	0	50	no trend	63	0	13	28	15.57	701	4.153	0	increasing
	2	E4D	8	0	11	13	12.31	10	1.122	13.09	no trend	34	0	10	161	24.16	-405	-5.991	0	decreasing
	2	N1D	8	0	130	190	142.6	9	0.99	16.12	no trend	119	1	<0.04	190	79.1	5853	13.441	0	increasing
	2	N2D	8	0	61	72	64.3	21	2.494	0.63	increasing	124	0	2	72	33.4	5257	11.352	0	increasing
	2	N3D	8	0	22	25	23.6	-1	0	50	no trend	116	0	0.6	51	19.22	3883	9.263	0	increasing
	2	N5D	8	0	52	61	56.3	20	2.351	0.94	increasing	57	0	30	61	42.2	1397	9.611	0	increasing
	2	N5S	8	0	33	35.1	34.25	-5	-0.499	30.9	no trend	57	0	31	39	35.1	465	3.195	0.07	increasing
	2	NE1D	8	0	34	37	35.84	5	0.495	31.04	no trend	57	0	29	81	36.44	715	4.916	0	increasing
	2	S11D	8	0	28	32	30.14	1	0	50	no trend	54	0	27	33	30.1	93	0.687	24.62	no trend
	2	W1D	8	0	31	35	33.2	11	1.237	10.8	no trend	115	0	11	46	28.3	621	1.499	6.7	no trend
	2	W2S	8	0	41	58	52.9	20	2.351	0.94	increasing	56	0	32	140	58.8	-800	-5.648	0	decreasing
	WSW	DNR	8	0	39	43	40.6	12	1.371	8.51	no trend	64	0	16	43	34.95	1536	8.895	0	increasing
	WSW	DOT	8	0	19	22	20.7	-1	0	50	no trend	103	0	10.1	32	16.66	2784	7.931	0	increasing
	WSW	S7	8	0	12	25	17.8	25	2.969	0.15	increasing	124	2	<1.0	56	11.83	5301	11.448	0	increasing
	WSW	STP	8	0	5.8	13	9.33	-4	-0.371	35.53	no trend	82	0	5.8	44.7	12.16	200	0.797	21.27	no trend
	WSW	WR1	8	0	38	44	41.6	15	1.732	4.16	no trend	61	0	36	53.4	43.6	-780	-4.848	0	decreasing

Table 7. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Total Dissolved Solids (mg/L)	1	C1S	7	0	633	1100	882.1	14	1.975	2.41	no trend	44	0	572	1201	889.3	12	0.111	45.57	no trend
	1	E1D	8	0	930	1014	963.5	-9	-0.99	16.12	no trend	57	0	930	1600	1157.9	-1307	-8.99	0	decreasing
	1	E1S	8	0	628	716	662.3	-16	-1.885	2.97	no trend	57	0	628	1200	826.2	-1297	-8.922	0	decreasing
	1	E2S	8	0	800	874	827.1	-20	-2.351	0.94	decreasing	57	0	551	890	799.2	514	3.532	0.02	increasing
	1	E4S	8	0	646	700	670.8	11	1.237	10.8	no trend	34	0	540	711	644.3	85	1.245	10.65	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1	N1SR	8	0	254	310	275.9	13	1.496	6.73	no trend	44	0	254	416	329.3	-576	-5.816	0	decreasing
	1	N2S	6	0	960	1005	971.8	N/A	N/A	N/A	N/A	27	0	926	1136	1015.9	N/A	N/A	N/A	N/A
	1	N3S	8	0	600	704	648.6	-21	-2.474	0.67	decreasing	55	0	600	724	669	376	2.722	0.32	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	0	479	545	501.8	-2	-0.34	36.71	no trend
	1	NE1S	8	0	466	510	487.9	3	0.249	40.16	no trend	57	0	380	620	521.9	73	0.496	31.01	no trend
	1	S10S	8	0	840	880	860.1	2	0.124	45.08	no trend	58	0	785	1410	1011.3	-1085	-7.272	0	decreasing
	1	S11S	8	0	490	529	514.5	-15	-1.732	4.16	no trend	53	0	479	551	519.7	18	0.13	44.81	no trend
	1	SE1D	8	0	520	550	527.4	-14	-1.634	5.12	no trend	54	0	351	559	514.1	521	3.88	0.01	increasing
	1	SE1S	8	0	480	504	491.1	-9	-0.997	15.93	no trend	54	0	452	548	491.5	-95	-0.701	24.16	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2	E2D	8	0	452	1129	989.1	-9	-0.997	15.93	no trend	57	0	452	1277	1125.8	-80	-0.544	29.33	no trend
	2	E3D	8	0	428	450	433.8	4	0.374	35.42	no trend	57	0	338	450	418.7	802	5.514	0	increasing
	2	E4D	8	0	320	348	331.3	-12	-1.371	8.51	no trend	34	0	320	556	356.4	-370	-5.471	0	decreasing
	2	N1D	8	0	890	958	911.6	-16	-1.856	3.17	no trend	56	0	860	1079	943.3	-117	-0.82	20.62	no trend
	2	N2D	8	0	670	726	701.4	-19	-2.244	1.24	no trend	57	0	403	767	684.4	741	5.094	0	increasing
	2	N3D	8	0	364	396	378.8	-8	-0.873	19.14	no trend	56	0	298	396	361.5	726	5.124	0	increasing
	2	N5D	8	0	810	862	837	-15	-1.745	4.05	no trend	57	0	657	891	803.3	931	6.402	0	increasing
	2	N5S	8	0	410	446	427.6	-13	-1.496	6.73	no trend	57	0	265	461	429.1	-54	-0.365	35.76	no trend
	2	NE1D	8	0	382	406	392.9	-10	-1.131	12.91	no trend	57	0	258	549	381.3	698	4.798	0	increasing
	2	S11D	8	0	510	545	529.1	-13	-1.496	6.73	no trend	54	0	496	571	534.9	-5	-0.03	48.81	no trend
	2	W1D	8	0	530	572	548.8	-15	-1.745	4.05	no trend	57	0	336	839	556	169	1.157	12.37	no trend
	2	W2S	8	0	520	560	547.9	-3	-0.249	40.16	no trend	56	0	327	721	518.5	743	5.244	0	increasing
	WSW	DNR	8	0	470	526	495.9	-21	-2.494	0.63	decreasing	57	0	430	526	482.7	661	4.543	0	increasing
	WSW	DOT	8	0	380	410	393	-9	-0.997	15.93	no trend	57	0	305	410	371.3	739	5.081	0	increasing
	WSW	S7	8	0	396	424	408.5	-10	-1.122	13.09	no trend	57	0	361	717	403.6	579	3.979	0	increasing
	WSW	STP	8	0	288	340	308.5	-7	-0.748	22.72	no trend	56	0	288	381	346.4	-263	-1.852	3.2	no trend
	WSW	WR1	8	0	474	516	494.8	-6	-0.619	26.81	no trend	46	0	378	633	476.4	297	2.803	0.25	increasing

Table 7. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Arsenic, Total (µg/L)	1	C1S	7	1	<0.50	3.5	1.607	14	1.975	2.41	no trend	44	7	<0.024	3.5	0.985	160	1.609	5.38	no trend
	1	E1D	8	0	4	6.1	4.71	19	2.28	1.13	no trend	104	33	<0.110	<200	10.23	-2408	-6.762	0	decreasing
	1	E1S	8	0	1	3	1.65	20	2.387	0.85	increasing	104	51	<0.024	<200	7.97	-1562	-4.385	0	decreasing
	1	E2S	8	0	1	3.1	1.825	12	1.361	8.68	no trend	105	37	<0.024	<200	11.43	-3541	-9.803	0	decreasing
	1	E4S	8	0	1	4	2.79	17	1.995	2.3	no trend	34	0	1	4	2.61	31	0.445	32.81	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	5	<0.110	144	25.37	N/A	N/A	N/A	N/A
	1	N1SR	8	0	1.7	3.6	2.263	14	1.621	5.25	no trend	44	0	1.5	3.6	2.052	-29	-0.283	38.84	no trend
	1	N2S	6	0	1	3	1.88	N/A	N/A	N/A	N/A	42	27	<0.030	<20	1.052	N/A	N/A	N/A	N/A
	1	N3S	8	0	2	8	3.475	4	0.371	35.53	no trend	102	43	<0.030	<200	9.5	-1944	-5.619	0	decreasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	6	<0.10	4	1.53	14	1.177	11.96	no trend
	1	NE1S	8	0	2	4.1	2.85	15	1.745	4.05	no trend	57	0	2	6	2.925	-291	-1.997	2.29	no trend
	1	S10S	8	0	1.7	3.5	2.425	17	1.995	2.3	no trend	58	5	<0.030	3.5	1.87	292	1.953	2.54	no trend
	1	S11S	8	0	5	6.9	6.01	9	1.005	15.74	no trend	53	0	3	7	5.81	-250	-1.911	2.8	no trend
	1	SE1D	8	0	9.6	13	11.15	18	2.103	1.77	no trend	54	0	4	18	11.43	-593	-4.418	0	decreasing
	1	SE1S	8	0	5	6.4	5.45	16	1.885	2.97	no trend	54	0	3	12	5.45	-83	-0.612	27.03	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	<20	<20	<20	N/A	N/A	N/A	N/A
	2	E2D	8	0	0.7	3.9	2.3	19	2.227	1.3	no trend	104	44	<0.030	<200	8.13	-1944	-5.458	0	decreasing
	2	E3D	8	0	6	7.5	6.6	10	1.122	13.09	no trend	63	0	2	10	6.63	-626	-3.708	0.01	decreasing
	2	E4D	8	0	3	16	13.25	19	2.262	1.19	no trend	34	0	3	26	17.7	-297	-4.391	0	decreasing
	2	N1D	8	0	5	6.7	5.35	14	1.634	5.12	no trend	104	34	<0.10	<200	10.2	-2586	-7.261	0	decreasing
	2	N2D	8	0	2.7	4.4	3.41	17	1.995	2.3	no trend	104	44	<0.10	<200	8.51	-1991	-5.59	0	decreasing
	2	N3D	8	0	8	14	9.13	-7	-0.748	22.72	no trend	101	29	<0.10	<200	12.91	-1374	-4.029	0	decreasing
	2	N5D	8	0	3	4.9	3.64	18	2.136	1.63	no trend	57	0	3	9	4.25	-675	-4.641	0	decreasing
	2	N5S	8	0	3	4.2	3.35	17	2.01	2.22	no trend	57	0	2	4.2	3.11	50	0.337	36.79	no trend
	2	NE1D	8	1	<0.50	9	6.6	13	1.496	6.73	no trend	57	1	<0.50	9	6.69	195	1.336	9.08	no trend
	2	S11D	8	0	3	9	7.49	18	2.119	1.7	no trend	54	0	3	9.6	7.8	-300	-2.231	1.28	no trend
	2	W1D	8	0	6	9.2	7.68	25	2.992	0.14	increasing	104	30	<0.110	<200	10.92	-1250	-3.509	0.02	decreasing
	2	W2S	8	0	1.6	3	2.275	17	1.995	2.3	no trend	56	1	<0.030	14	2.586	-196	-1.379	8.4	no trend
	WSW	DNR	8	0	4.5	6.3	5.48	9	0.997	15.93	no trend	64	0	4	12	5.87	-600	-3.471	0.03	decreasing
	WSW	DOT	8	1	<0.024	8.1	5.56	19	2.227	1.3	no trend	103	32	<0.024	<200	11.27	-2467	-7.028	0	decreasing
	WSW	S7	8	0	3	6.9	4.24	21	2.494	0.63	increasing	104	44	<0.024	<200	9.5	-1834	-5.149	0	decreasing
	WSW	STP	8	0	20	81	47.6	-14	-1.608	5.39	no trend	105	34	<1.0	<200	15.58	-899	-2.487	0.64	decreasing
	WSW	WR1	8	0	3	4.4	3.44	19	2.28	1.13	no trend	61	15	<0.030	5	2.44	255	1.581	5.69	no trend

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Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Iron, Total (mg/L)	1	C1S	7	5	<0.050	0.13	0.0764	-3	-0.307	37.93	no trend	44	29	<0.00130	0.35	0.0515	27	0.263	39.63	no trend
	1	E1D	8	6	<0.0012	<0.18	0.0461	-10	-1.131	12.91	no trend	101	67	<0.0010	3.89	0.0945	-1832	-5.373	0	decreasing
	1	E1S	8	7	<0.0012	<0.18	0.045	-11	-1.267	10.27	no trend	101	54	<0.0010	19	0.481	-2920	-8.566	0	decreasing
	1	E2S	8	5	<0.050	0.14	0.0831	-7	-0.754	22.55	no trend	102	8	<0.00130	23	2.977	-2632	-7.607	0	decreasing
	1	E4S	8	7	<0.0012	<0.18	0.0458	-11	-1.267	10.27	no trend	33	28	<0.0010	0.12	0.02297	-169	-2.607	0.46	decreasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	0	0.2	132	27.47	N/A	N/A	N/A	N/A
	1	N1SR	8	7	<0.0012	<0.18	0.0454	-11	-1.267	10.27	no trend	44	40	<0.0010	<0.18	0.01362	N/A	N/A	N/A	N/A
	1	N2S	6	5	0.01	<0.18	0.0608	N/A	N/A	N/A	N/A	40	35	<0.002	3.6	0.1153	N/A	N/A	N/A	N/A
	1	N3S	8	5	0.03	0.2	0.0813	2	0.126	45	no trend	99	41	<0.0010	16	1.286	-1985	-5.998	0	decreasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	5	<0.002	0.129	0.0459	-25	-2.164	1.52	no trend
	1	NE1S	8	6	<0.0012	0.09	0.062	-16	-1.885	2.97	no trend	57	41	<0.0010	0.22	0.03655	-419	-2.878	0.2	decreasing
	1	S10S	8	6	<0.0012	<0.18	0.0507	-12	-1.382	8.35	no trend	58	35	<0.0010	2.05	0.1493	-720	-4.825	0	decreasing
	1	S11S	8	4	<0.150	0.14	0.1088	-19	-2.28	1.13	no trend	53	5	<0.002	0.25	0.1226	117	0.89	18.68	no trend
	1	SE1D	8	4	<0.150	1.18	0.366	-18	-2.136	1.63	no trend	54	4	<0.150	23.6	5.3	-1008	-7.513	0	decreasing
	1	SE1S	8	6	<0.0012	<0.18	0.0555	-12	-1.382	8.35	no trend	54	28	<0.0010	1.63	0.1115	-682	-5.082	0	decreasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	11	21	17.33	N/A	N/A	N/A	N/A
	2	E2D	8	6	<0.0012	0.88	0.1582	-16	-1.885	2.97	no trend	98	61	<0.0010	23	0.3326	-2189	-6.716	0	decreasing
	2	E3D	8	6	<0.0012	<0.18	0.0507	-14	-1.634	5.12	no trend	62	37	<0.0010	0.3	0.0418	-857	-5.201	0	decreasing
	2	E4D	8	4	<0.150	1.36	0.449	-22	-2.639	0.42	decreasing	34	4	<0.150	3.41	0.9	-176	-2.595	0.47	decreasing
	2	N1D	8	0	0.27	0.43	0.3375	12	1.361	8.68	no trend	101	1	<0.0012	2.77	0.499	-15	-0.041	48.36	no trend
	2	N2D	8	5	<0.0012	1.3	0.1996	-7	-0.748	22.72	no trend	100	63	<0.0012	1.85	0.0705	-1707	-5.081	0	decreasing
	2	N3D	8	4	<0.150	0.47	0.1725	-24	-2.89	0.19	decreasing	98	5	<0.0012	2.04	0.365	-1479	-4.536	0	decreasing
	2	N5D	8	6	<0.0012	<0.18	0.052	-15	-1.773	3.81	no trend	57	48	<0.0010	<0.18	0.01624	-282	-1.935	2.65	no trend
	2	N5S	8	6	<0.0012	<0.18	0.0503	-12	-1.382	8.35	no trend	57	50	<0.0010	0.09	0.0154	N/A	N/A	N/A	N/A
	2	NE1D	8	4	0.04	0.29	0.1	4	0.377	35.31	no trend	57	20	<0.0010	3.92	0.1915	-609	-4.186	0	decreasing
	2	S11D	8	3	<0.150	0.56	0.322	-15	-1.745	4.05	no trend	54	3	<0.150	2.27	0.4815	-69	-0.507	30.6	no trend
	2	W1D	8	4	<0.150	0.34	0.1363	-20	-2.387	0.85	decreasing	101	4	0.037	0.8	0.2475	-2522	-7.398	0	decreasing
	2	W2S	8	5	0.009	<0.18	0.0568	8	0.88	18.96	no trend	56	34	<0.0010	1.92	0.1195	-571	-4.03	0	decreasing
	WSW	DNR	8	1	<0.18	0.5	0.315	-1	0	50	no trend	64	1	<0.18	15.1	0.605	133	0.765	22.22	no trend
	WSW	DOT	8	4	<0.150	0.45	0.16	-21	-2.533	0.57	decreasing	100	5	<0.010	0.854	0.2467	-150	-0.444	32.86	no trend
	WSW	S7	8	4	<0.150	0.19	0.1075	-19	-2.28	1.13	no trend	101	16	<0.0010	14.7	0.2997	-12	-0.032	48.71	no trend
	WSW	STP	8	2	<0.150	31.76	6.64	-10	-1.113	13.28	no trend	100	20	<0.002	86	1.607	2009	5.98	0	increasing
	WSW	WR1	8	6	<0.0012	<0.18	0.0507	-14	-1.634	5.12	no trend	61	26	<0.0012	2.13	0.1276	-295	-1.83	3.36	no trend

Table 7. Short and Long Term Statisitics for Select Parameters
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Manganese, Total (mg/L)	1	C1S	7	4	<0.00170	0.012	0.00424	-1	0	50	no trend	44	6	<0.0000282	0.459	0.227	-512	-5.169	0	decreasing
	1	E1D	8	0	0.037	0.047	0.0405	15	1.732	4.16	no trend	101	3	<0.0010	0.394	0.0463	1231	3.609	0.02	increasing
	1	E1S	8	5	<0	0.026	0.00518	-14	-1.634	5.12	no trend	101	6	<0	0.97	0.158	-2878	-8.442	0	decreasing
	1	E2S	8	0	0.059	0.477	0.3544	-7	-0.748	22.72	no trend	102	1	<0.0000282	2.8	1.004	-540	-1.558	5.96	no trend
	1	E4S	8	5	<0	0.484	0.0625	-17	-2.027	2.14	no trend	34	8	<0	0.484	0.02883	-317	-4.688	0	decreasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	0	0.241	1.33	0.511	N/A	N/A	N/A	N/A
	1	N1SR	8	4	<0.00170	<0.010	0.002213	4	0.38	35.2	no trend	44	4	<0.00170	0.014	0.00532	-566	-5.716	0	decreasing
	1	N2S	6	4	<0.00170	0.006	0.00378	N/A	N/A	N/A	N/A	40	4	<0.00170	0.283	0.0691	N/A	N/A	N/A	N/A
	1	N3S	8	4	<0.00170	0.045	0.00809	-5	-0.507	30.62	no trend	99	18	<0.0000282	0.34	0.02714	-1704	-5.149	0	decreasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	0.136	0.194	0.1652	-27	-2.335	0.98	decreasing
	1	NE1S	8	4	<0.00170	0.019	0.00584	-4	-0.377	35.31	no trend	57	22	<0	0.329	0.0137	-719	-4.944	0	decreasing
	1	S10S	8	0	0.056	0.081	0.0698	-10	-1.113	13.28	no trend	58	0	0.056	0.365	0.1276	-1342	-8.996	0	decreasing
	1	S11S	8	0	0.183	0.215	0.197	12	1.382	8.35	no trend	53	0	0.01	0.271	0.1837	484	3.705	0.01	increasing
	1	SE1D	8	0	0.179	0.215	0.195	2	0.126	45	no trend	54	1	<0.0000282	0.778	0.2613	-629	-4.685	0	decreasing
	1	SE1S	8	7	<0	<0.010	0.001776	-13	-1.52	6.43	no trend	54	25	<0	0.241	0.01204	-719	-5.359	0	decreasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	0.13	0.22	0.1867	N/A	N/A	N/A	N/A
	2	E2D	8	0	0.057	0.179	0.0765	-3	-0.247	40.23	no trend	99	27	<0.000090	2	0.0542	2030	6.134	0	increasing
	2	E3D	8	0	0.076	0.29	0.2316	0	0	50	no trend	62	0	0.07	0.344	0.2367	570	3.456	0.03	increasing
	2	E4D	8	0	0.002	0.084	0.0618	-4	-0.371	35.53	no trend	34	0	0.002	0.393	0.1094	-352	-5.203	0	decreasing
	2	N1D	8	0	0.177	0.29	0.229	7	0.742	22.9	no trend	101	0	0.002	0.96	0.181	2601	7.629	0	increasing
	2	N2D	8	3	<0.00170	0.02	0.01221	-4	-0.377	35.31	no trend	100	42	<0.000030	0.041	0.00767	2323	6.916	0	increasing
	2	N3D	8	0	0.026	0.154	0.0563	-20	-2.351	0.94	decreasing	98	0	0.009	0.25	0.0534	-749	-2.296	1.08	no trend
	2	N5D	8	0	0.001	0.265	0.2128	3	0.249	40.16	no trend	57	1	<0.0000282	0.265	0.177	934	6.423	0	increasing
	2	N5S	8	5	<0	0.021	0.00446	-18	-2.136	1.63	no trend	57	21	<0	0.294	0.00962	-420	-2.885	0.2	decreasing
	2	NE1D	8	4	<0.00170	0.023	0.00971	-6	-0.628	26.49	no trend	57	4	<0.00170	0.378	0.03605	-1011	-6.954	0	decreasing
	2	S11D	8	0	0.155	0.219	0.168	-4	-0.374	35.42	no trend	54	0	0.078	0.22	0.1647	-85	-0.627	26.54	no trend
	2	W1D	8	0	0.02	0.16	0.1326	7	0.742	22.9	no trend	101	1	<0.0010	0.23	0.1625	-2129	-6.244	0	decreasing
	2	W2S	8	4	0.0005	<0.010	0.0024	4	0.377	35.31	no trend	56	10	<0	2.42	0.1833	-919	-6.489	0	decreasing
	WSW	DNR	8	0	0.099	0.12	0.1075	5	0.499	30.9	no trend	64	0	0.075	0.147	0.0944	230	1.327	9.23	no trend
	WSW	DOT	8	0	0.126	0.146	0.1364	7	0.748	22.72	no trend	100	0	0.062	0.159	0.1286	153	0.453	32.54	no trend
	WSW	S7	8	4	<0.00170	0.036	0.0147	-13	-1.52	6.43	no trend	101	4	<0.00170	0.197	0.03205	-29	-0.082	46.73	no trend
	WSW	STP	8	0	0.081	0.339	0.1303	-8	-0.866	19.33	no trend	100	12	<0.0010	0.339	0.0735	2918	8.687	0	increasing
	WSW	WR1	8	5	<0	<0.010	0.002063	-12	-1.382	8.35	no trend	61	29	<0	0.09	0.00485	-461	-2.863	0.21	decreasing

Table 7. Short and Long Term Statisitics for Select Parameters
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2015-2016)									Long Term Statistics (1985-2016)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Vinyl Chloride (µg/L)	1	C1S	7	6	<0.010	0.26	0.0793	N/A	N/A	N/A	N/A	44	16	<0.00590	4	0.656	-662	-6.688	0	decreasing
	1	E1D	12	0	0.16	0.405	0.288	-14	-0.891	18.64	no trend	72	17	<0.010	<3.0	0.407	466	2.261	1.19	no trend
	1	E1S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	75	35	<0.00590	2.2	0.2775	-1566	-7.16	0	decreasing
	1	E2S	12	0	0.18	0.53	0.311	-27	-1.783	3.73	no trend	80	4	0.18	2.98	1.076	-1657	-6.88	0	decreasing
	1	E4S	8	6	<0.010	0.26	0.089	-15	-1.745	4.05	no trend	34	24	<0.00590	0.26	0.0455	143	2.107	1.75	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	<0.50	<0.50	<0.50	N/A	N/A	N/A	N/A
	1	N1SR	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	44	40	<0.00590	0.26	0.0348	N/A	N/A	N/A	N/A
	1	N2S	10	2	<0.02	0.12	0.0458	N/A	N/A	N/A	N/A	44	2	<0.02	7.9	2.943	N/A	N/A	N/A	N/A
	1	N3S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	73	66	<0.00590	<3.0	0.1154	N/A	N/A	N/A	N/A
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	<0.010	<0.50	0.1335	N/A	N/A	N/A	N/A
	1	NE1S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	57	53	<0.00590	0.26	0.02895	N/A	N/A	N/A	N/A
	1	S10S	12	5	<0.0050	0.26	0.0413	-53	-3.566	0.02	decreasing	62	5	<0.0050	7.71	1.84	-1666	-10.11	0	decreasing
	1	S11S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	53	49	<0.00590	0.26	0.02505	N/A	N/A	N/A	N/A
	1	SE1D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	54	50	<0.00590	0.26	0.02926	N/A	N/A	N/A	N/A
	1	SE1S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	54	50	<0.00590	0.26	0.02926	N/A	N/A	N/A	N/A
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2	E2D	12	0	5.2	35	22.88	-6	-0.344	36.56	no trend	73	8	<0.02	53.6	16.07	1442	6.863	0	increasing
	2	E3D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	63	56	<0.00590	0.26	0.04725	N/A	N/A	N/A	N/A
	2	E4D	12	7	<0.010	0.26	0.0361	-13	-0.825	20.48	no trend	38	7	<0.010	0.26	0.055	-208	-2.603	0.46	decreasing
	2	N1D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	69	65	<0.00590	<3.0	0.121	N/A	N/A	N/A	N/A
	2	N2D	12	1	<0.02	0.26	0.0713	-16	-1.029	15.19	no trend	79	15	<0.02	<3.0	0.125	377	1.592	5.57	no trend
	2	N3D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	67	63	<0.00590	<3.0	0.0993	N/A	N/A	N/A	N/A
	2	N5D	12	4	<0.010	0.26	0.0395	-30	-1.989	2.34	no trend	61	6	<0.010	0.26	0.03756	417	2.589	0.48	increasing
	2	N5S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	57	53	<0.00590	0.26	0.02895	N/A	N/A	N/A	N/A
	2	NE1D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	57	53	<0.00590	0.26	0.02895	N/A	N/A	N/A	N/A
	2	S11D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	55	51	<0.00590	0.26	0.0298	N/A	N/A	N/A	N/A
	2	W1D	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	65	61	<0.00590	<3.0	0.1102	N/A	N/A	N/A	N/A
	2	W2S	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	56	51	<0.00590	0.26	0.0265	N/A	N/A	N/A	N/A
	WSW	DNR	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	64	60	<0.00590	0.26	0.0494	N/A	N/A	N/A	N/A
	WSW	DOT	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	65	61	<0.00590	<3.0	0.091	N/A	N/A	N/A	N/A
	WSW	S7	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	64	60	<0.00590	<3.0	0.0884	N/A	N/A	N/A	N/A
	WSW	STP	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	63	59	<0.00590	<3.0	0.0898	N/A	N/A	N/A	N/A
	WSW	WR1	8	7	<0.010	0.26	0.0856	N/A	N/A	N/A	N/A	61	57	<0.00590	0.26	0.0846	N/A	N/A	N/A	N/A

Notes
[a] Arithmetic Mean
µg/L = micrograms per liter
mg/L = milligrams per liter
N = number of samples
N/A = not applicable (no data available or calculation not applicable)
ND = non-detect sample results
Mann-Kendall Analysis for Short Term Statistics required a minimum of four samples in order to assess.
Mann-Kendall Analysis for Long Term Statistics required a minimum of eight samples in order to assess.

Table 8. Landfill Gas Monitoring Data
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-BL-LG	2/3/2016 9:30	24.6	14.1	3.8	57.5	46	46	-41.4	-40.6	1.7	1.7	0	0	29.88		43
IC-BL-LG	3/23/2016 6:56	26.9	16.8	0.7	55.6	49	49	-41.9	-42.1	1.8	1.8	0	0	30		51
IC-BL-LG	5/12/2016 14:14	22.2	13.5	2.9	61.4	81	81	-39	-39	1.465	1.431	50	50	29.73		60
IC-BL-LG	7/25/2016 8:55	46	21.5	0	32.5	69	70	-37	-36.8	1.401	1.34	51	50	29.82		67
IC-BL-LG	11/18/2016 8:52	50.7	21.2	0.2	27.9	25	44	-39	-39.1	1.19	1.314	50	51	29.86		45
IC-BL-LG	12/20/2016 9:02	48.1	19.9	0	32	41	41	-39.4	-39.5	1.258	1.342	50	52	29.9		48
IC-BL-SV	2/3/2016 9:28	0	0.6	20.5	78.9	48	48	-48.7	-48.9	0.2	0.2	0	0	29.88		43
IC-BL-SV	3/23/2016 6:55	11.1	15.7	1.3	71.9	48	48	-48.8	-48.9	0.4	0.4	0	0	30		51
IC-BL-SV	5/12/2016 14:13	24.5	15.9	1.4	58.2	82	81	-45.7	-46	0.198	0.2	18	18	29.73		60
IC-BL-SV	7/25/2016 8:57	21.9	16.4	0	61.7	71	73	0.7	-0.1	0.054	0.051	31	30	29.82		67
IC-BL-SV	11/18/2016 8:49	1.4	15	0.9	82.7	41	42	-50.1	-50	0.663	0.68	33	33	29.86		45
IC-BL-SV	12/20/2016 8:59	0.8	12.3	4.3	82.6	43	43	-50.2	-50.1	0.501	0.467	29	28	29.92		48
IC-FL-In	2/3/2016 9:31	28.9	17.3	0.5	53.3	49	49	1	0.9	-1.035	-1.303	0	0	29.88		43
IC-FL-In	3/23/2016 6:58	26.6	16.7	0.8	55.9	53	53	1.2	1	-1.044	-1	0	0	30		51
IC-FL-IN	5/12/2016 14:10	25.2	15.9	0.9	58	90	89	1.1	1.1	0.327	0.294	93	88	29.74		60
IC-FL-IN	7/25/2016 9:00	47.7	20.8	0	31.5	72	72	-0.4	-0.4	2.853	2.851	40	39	29.82		67
IC-FL-IN	11/18/2016 9:00	50.2	21.3	0.4	28.1	52	52	0.5	0.5	0.058	0.052	42	40	29.86		45
IC-FL-IN	12/20/2016 9:07	47.6	20	0	32.4	50	50	0.8	0.7	0.215	0.25	82	88	29.9		48
IC-GP11D	2/3/2016 8:45	0	1.5	19.5	79									29.91		43
IC-GP11D	5/12/2016 9:45	0	1.8	19.1	79.1									29.77		60
IC-GP11D	7/25/2016 13:40	0	1.4	19.4	79.2									29.8		67
IC-GP11D	10/20/2016 13:41	0	1.4	19.4	79.2									29.84		59
IC-GP11S	2/3/2016 8:44	0	1.9	19.1	79									29.9		43
IC-GP11S	5/12/2016 9:43	0	2.9	18.3	78.8									29.76		60
IC-GP11S	7/25/2016 13:39	0	1.9	18.8	79.3									29.79		67
IC-GP11S	10/20/2016 13:40	0	1.3	19.6	79.1									29.84		59
IC-GP13D	2/4/2016 7:51	0	0.7	19.9	79.4									30.09		45
IC-GP13D	5/12/2016 10:17	0	2.1	18.6	79.3									29.76		60
IC-GP13D	7/25/2016 13:53	0	1.7	18.7	79.6									29.78		67
IC-GP13D	10/20/2016 12:37	0	0.7	19.5	79.8									29.82		59
IC-GP13S	2/4/2016 7:49	0	0.2	20.8	79									30.09		45
IC-GP13S	5/12/2016 10:12	0	2.6	18.7	78.7									29.75		60
IC-GP13S	7/25/2016 13:52	0	2	18.1	79.9									29.78		67
IC-GP13S	10/20/2016 12:36	0	0.3	20.2	79.5									29.82		59
IC-GP15D	2/3/2016 8:27	0	6.2	13.4	80.4									29.89		43
IC-GP15D	5/12/2016 9:18	0	3	16	81									29.75		60
IC-GP15D	7/25/2016 12:47	0	5.2	9.8	85									29.79		67
IC-GP15D	10/20/2016 13:14	2	17.9	0.8	79.3									29.82		59
IC-GP15S	2/3/2016 8:26	0	3.6	16	80.4									29.89		43
IC-GP15S	5/12/2016 9:17	0	3.6	17.2	79.2									29.75		60
IC-GP15S	7/25/2016 12:47	0	3.3	10.4	86.3									29.79		67
IC-GP15S	10/20/2016 13:12	2.5	17.8	0.4	79.3									29.82		59
IC-GP17D	2/3/2016 8:33	0	5	15.1	79.9									29.89		43
IC-GP17D	5/12/2016 9:21	0	3.4	17.2	79.4									29.75		60
IC-GP17D	7/25/2016 12:51	0	3.4	14.9	81.7									29.79		67
IC-GP17D	10/20/2016 13:18	0.1	7.6	9.1	83.2									29.82		59
IC-GP17S	2/3/2016 8:31	0	2.5	18.3	79.2									29.89		43
IC-GP17S	5/12/2016 9:20	0	4.1	18.2	77.7									29.75		60
IC-GP17S	7/25/2016 12:50	0	3.8	15.7	80.5									29.79		67
IC-GP17S	10/20/2016 13:17	0.1	6.2	11.9	81.8									29.82		59
IC-GP-1D	2/3/2016 8:05	0	1.5	19.9	78.6									29.9		43
IC-GP-1D	5/12/2016 15:05	0	1.4	17.8	80.8									29.74		60
IC-GP-1D	7/25/2016 14:17	0	1.4	18.1	80.5									29.77		67
IC-GP-1D	10/20/2016 14:28	0	2.5	17.5	80									29.84		59
IC-GP-1S	2/3/2016 8:03	0	1.1	20.3	78.6									29.9		43
IC-GP-1S	5/12/2016 15:04	0	0.6	18.4	81									29.74		60
IC-GP-1S	7/25/2016 14:17	0	1.5	18.2	80.3									29.77		67
IC-GP-1S	10/20/2016 14:26	0	1.4	19.1	79.5									29.83		59

Table 8. Landfill Gas Monitoring Data
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
ICGP2018	2/4/2016 7:59	0	2.3	19.2	78.5									30.07		45
ICGP2018	5/12/2016 10:38	0	3.5	16.6	79.9									29.74		60
ICGP2018	7/25/2016 12:12	0	3.5	16.4	80.1									29.69		67
ICGP2018	10/20/2016 12:14	0	2.3	17.6	80.1									29.71		59
ICGP2038	2/4/2016 8:01	0	5.5	14.5	80									30.07		45
ICGP2038	5/12/2016 10:42	0	4.8	14.7	80.5									29.74		60
ICGP2038	7/25/2016 12:17	0	4.8	13.6	81.6									29.7		67
ICGP2038	10/20/2016 12:18	0	6.2	12.9	80.9									29.71		59
ICGP2058	2/4/2016 8:08	0	6.6	12.7	80.7									30.08		45
ICGP2058	5/12/2016 10:45	0	5.8	12.4	81.8									29.74		60
ICGP2058	7/25/2016 12:21	0	5.9	11.2	82.9									29.71		67
ICGP2058	10/20/2016 12:20	0	7.1	10.7	82.2									29.72		59
ICGP2078	2/4/2016 8:13	0	0.1	20.8	79.1									30.08		45
ICGP2078	5/12/2016 10:48	0	4.8	12.6	82.6									29.74		60
ICGP2078	7/25/2016 12:24	0	4.9	11.3	83.8									29.71		67
ICGP2078	10/20/2016 12:21	0	4.8	13.4	81.8									29.72		59
ICGP2098	2/4/2016 8:15	0	4	14.5	81.5									30.08		45
ICGP2098	5/12/2016 10:50	0	1.8	20.1	78.1									29.74		60
ICGP2098	7/25/2016 12:28	0	0.3	19.7	80									29.71		67
ICGP2098	10/20/2016 12:23	0	0.2	19.7	80.1									29.72		59
ICGP2118	2/4/2016 8:22	0	2.6	18.1	79.3									30.08		45
ICGP2118	5/12/2016 11:02	0	2.3	18.8	78.9									29.74		60
ICGP2118	7/25/2016 11:23	0	2.1	19.2	78.7									29.79		67
ICGP2118	10/20/2016 12:45	0	2.7	17.9	79.4									29.8		59
ICGP2138	2/4/2016 8:24	0	1.9	18.6	79.5									30.08		45
ICGP2138	5/12/2016 11:07	0	3.1	17.4	79.5									29.75		60
ICGP2138	7/25/2016 11:30	0	3	17.7	79.3									29.79		67
ICGP2138	10/20/2016 12:46	0	0.9	19.6	79.5									29.81		59
ICGP2158	2/4/2016 8:26	0	2.2	18.5	79.3									30.09		45
ICGP2158	5/12/2016 11:11	0	3.1	16.9	80									29.75		60
ICGP2158	7/25/2016 11:38	0	3	16.8	80.2									29.79		67
ICGP2158	10/20/2016 12:47	0	2.1	18.4	79.5									29.81		59
ICGP2178	2/4/2016 8:28	0	1.8	18.8	79.4									30.09		45
ICGP2178	5/12/2016 11:15	0	2.4	17.9	79.7									29.75		60
ICGP2178	7/25/2016 11:47	0	3.1	16.7	80.2									29.79		67
ICGP2178	10/20/2016 12:49	0	2.2	18.3	79.5									29.81		59
ICGP2198	2/4/2016 8:30	0	2.5	17.9	79.6									30.09		45
ICGP2198	5/12/2016 11:18	0	3	17.4	79.6									29.75		60
ICGP2198	7/25/2016 11:54	0	3.1	16.5	80.4									29.79		67
ICGP2198	10/20/2016 12:50	0	2.6	17.6	79.8									29.81		59
IC-GP-22	2/4/2016 8:41	0	2	18.6	79.4									30.1		45
IC-GP-22	5/12/2016 11:33	0	1.1	18.9	80									29.75		60
IC-GP-22	7/25/2016 12:40	0	2.2	16.5	81.3									29.8		67
IC-GP-22	10/20/2016 13:03	0.1	5.6	12.2	82.1									29.81		59
ICGP2318	2/3/2016 8:10	0	2.1	19	78.9									29.9		43
ICGP2318	5/12/2016 15:19	0	2.2	18	79.8									29.74		60
ICGP2318	7/25/2016 14:00	0	1.6	18.5	79.9									29.76		67
ICGP2318	10/20/2016 13:48	0	2.6	18.1	79.3									29.82		59
ICGP2338	2/3/2016 8:12	0	1.7	19.4	78.9									29.89		43
ICGP2338	5/12/2016 15:22	0	2.1	18	79.9									29.74		60
ICGP2338	7/25/2016 14:03	0	1.8	18.1	80.1									29.77		67
ICGP2338	10/20/2016 13:51	0	2.6	18	79.4									29.82		59
ICGP2358	2/3/2016 8:16	0	2.1	18.6	79.3									29.89		43
ICGP2358	5/12/2016 15:24	0	1.4	18.2	80.4									29.74		60
ICGP2358	7/25/2016 14:06	0	1.9	17.8	80.3									29.77		67
ICGP2358	10/20/2016 13:54	0	2.5	17.8	79.7									29.83		59
ICGP2378	2/3/2016 8:19	0	3.2	17.4	79.4									29.9		43
ICGP2378	5/12/2016 15:27	0	0.2	20.3	79.5									29.74		60
ICGP2378	7/25/2016 14:09	0	0.1	20.6	79.3									29.77		67
ICGP2378	10/20/2016 13:55	0	0.2	20.6	79.2									29.83		59

Table 8. Landfill Gas Monitoring Data
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Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
ICGP2398	2/3/2016 8:22	0	2.3	18.4	79.3									29.9		43
ICGP2398	5/12/2016 15:29	0	2.1	17.7	80.2									29.74		60
ICGP2398	7/25/2016 14:13	0	2.2	17.3	80.5									29.77		67
ICGP2398	10/20/2016 13:56	0	2.3	17.9	79.8									29.83		59
ICGP2418	2/3/2016 7:43	0	3	17.1	79.9									29.9		43
ICGP2418	5/12/2016 14:48	0	2.7	16.1	81.2									29.64		60
ICGP2418	7/25/2016 14:22	0	2.3	18.2	79.5									29.76		67
ICGP2418	10/20/2016 14:16	0	2.9	16.9	80.2									29.83		59
ICGP2438	2/3/2016 7:47	0	3.2	16.1	80.7									29.9		43
ICGP2438	5/12/2016 14:50	0	2.7	15.1	82.2									29.65		60
ICGP2438	7/25/2016 14:25	0	2.6	14.9	82.5									29.76		67
ICGP2438	10/20/2016 14:17	0	1.4	18.8	79.8									29.84		59
ICGP2458	2/3/2016 7:50	0	3.5	15.2	81.3									29.9		43
ICGP2458	5/12/2016 14:52	0	1.6	18.5	79.9									29.65		60
ICGP2458	7/25/2016 14:27	0	2.9	14.3	82.8									29.66		67
ICGP2458	10/20/2016 14:19	0	3	15.5	81.5									29.84		59
ICGP2478	2/3/2016 7:55	0	2.6	15.6	81.8									29.9		43
ICGP2478	5/12/2016 14:56	0	2.7	13.9	83.4									29.65		60
ICGP2478	7/25/2016 14:29	0	1.9	14.6	83.5									29.67		67
ICGP2478	10/20/2016 14:20	0	0.8	20	79.2									29.84		59
ICGP2498	2/3/2016 7:59	0	2.9	15.6	81.5									29.92		43
ICGP2498	5/12/2016 14:58	0	0.2	19.7	80.1									29.66		60
ICGP2498	7/25/2016 14:31	0	0.1	20.5	79.4									29.67		67
ICGP2498	10/20/2016 14:21	0	0.1	20.6	79.3									29.84		59
ICGP2518	2/3/2016 7:22	0	5.4	15.6	79									29.92		43
ICGP2518	5/12/2016 14:29	0	6.1	13.7	80.2									29.74		60
ICGP2518	7/25/2016 14:41	0	6.6	11.7	81.7									29.77		67
ICGP2518	10/20/2016 14:03	0	7.4	14.8	77.8									29.82		59
ICGP2538	2/3/2016 7:24	0	4.9	16.3	78.8									29.92		43
ICGP2538	5/12/2016 14:32	0	4.2	15.6	80.2									29.73		60
ICGP2538	7/25/2016 14:45	0	4.1	14.6	81.3									29.67		67
ICGP2538	10/20/2016 14:04	0	5	15.1	79.9									29.83		59
ICGP2558	2/3/2016 7:27	0	4.5	16.2	79.3									29.92		43
ICGP2558	5/12/2016 14:34	0	3.8	15.7	80.5									29.73		60
ICGP2558	7/25/2016 14:47	0	3.5	15.3	81.2									29.77		67
ICGP2558	10/20/2016 14:05	0	0.4	20.5	79.1									29.83		59
ICGP2578	2/3/2016 7:30	0	4.5	16	79.5									29.92		43
ICGP2578	5/12/2016 14:38	0	4.2	15.1	80.7									29.73		60
ICGP2578	7/25/2016 14:51	0	3.6	15.1	81.3									29.77		67
ICGP2578	10/20/2016 14:06	0	4.5	15.5	80									29.83		59
ICGP2598	2/3/2016 7:34	0	4.1	16.4	79.5									29.91		43
ICGP2598	5/12/2016 14:40	0	0.5	18.5	81									29.63		60
ICGP2598	7/25/2016 14:55	0	3.2	15.1	81.7									29.76		67
ICGP2598	10/20/2016 14:07	0	0.2	20.6	79.2									29.83		59
ICGP2618	2/4/2016 7:42	0	0.4	20.6	79									30.12		45
ICGP2618	5/12/2016 9:58	0	3	16	81									29.79		60
ICGP2618	7/25/2016 13:45	0	2.6	15.3	82.1									29.81		67
ICGP2618	10/20/2016 12:29	0	3.4	14.7	81.9									29.77		59
ICGP2638	2/4/2016 7:44	0	1.4	18.5	80.1									30.12		45
ICGP2638	5/12/2016 10:03	0	2.3	17.9	79.8									29.79		60
ICGP2638	7/25/2016 13:47	0	2.3	16.8	80.9									29.81		67
ICGP2638	10/20/2016 12:30	0	2.9	16.6	80.5									29.86		59
ICGP2658	2/4/2016 7:46	0	2.4	16.2	81.4									30.12		45
ICGP2658	5/12/2016 10:07	0	3.1	15.2	81.7									29.79		60
ICGP2658	7/25/2016 13:48	0	1.9	16	82.1									29.81		67
ICGP2658	10/20/2016 12:32	0	2.3	16.2	81.5									29.86		59

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2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-GP-27	2/4/2016 7:56	0	6	12.4	81.6									30.08		45
IC-GP-27	5/12/2016 10:30	0	6.3	11.7	82									29.75		60
IC-GP-27	7/25/2016 13:56	0	1.5	18.3	80.2									29.77		67
IC-GP-27	10/20/2016 12:41	0	7.2	10.5	82.3									29.72		59
IC-GP-28	2/4/2016 8:33	0	4	14.5	81.5									30.1		45
IC-GP-28	5/12/2016 10:56	0	5.8	12.5	81.7									29.75		60
IC-GP-28	7/25/2016 12:32	0	0.4	20.7	78.9									29.8		67
IC-GP-28	10/20/2016 12:53	0	6.5	12.3	81.2									29.82		59
ICGP2998	2/4/2016 8:39	0	1.9	17.9	80.2									30.1		45
ICGP2998	5/12/2016 11:28	0	2.9	15.1	82									29.75		60
ICGP2998	7/25/2016 12:38	0	2.2	16.1	81.7									29.79		67
ICGP2998	10/20/2016 13:01	0	3.2	14.8	82									29.81		59
ICGP3018	2/3/2016 9:04	31.4	10.6	0	58									29.89		43
ICGP3018	2/3/2016 9:04	31.4	10.6	0	58									29.89		43
ICGP3018	3/23/2016 6:35	33.4	9.5	0	57.1									30.01		51
ICGP3018	5/12/2016 11:41	22.6	6.2	5.4	65.8									29.74		60
ICGP3018	7/25/2016 10:54	27.8	6.7	1.9	63.6									29.8		67
ICGP3018	10/20/2016 11:51	0	0.2	20	79.8									29.8		59
ICGP3018	11/18/2016 10:02	35.9	9	0	55.1									29.84		41
ICGP3018	12/20/2016 10:02	23.7	6.8	9	60.5									29.93		48
ICGP3038	2/3/2016 9:07	19.8	12.4	0	67.8									29.89		43
ICGP3038	2/3/2016 9:07	19.8	12.4	0	67.8									29.89		43
ICGP3038	3/23/2016 6:39	21.3	11.8	0	66.9									30.01		51
ICGP3038	5/12/2016 11:48	15	12.8	0	72.2									29.75		60
ICGP3038	7/25/2016 10:58	18.6	11.8	0	69.6									29.8		67
ICGP3038	10/20/2016 11:55	33.1	11.8	0	55.1									29.8		59
ICGP3038	11/18/2016 10:05	21.9	12.4	0	65.7									29.84		41
ICGP3038	12/20/2016 10:05	32.6	11.9	0	55.5									29.94		48
ICGP3069	2/3/2016 9:11	2.5	14	4.1	79.4									29.89		43
ICGP3069	2/3/2016 9:11	2.5	14	4.1	79.4									29.89		43
ICGP3069	3/23/2016 6:43	3.3	15.4	1.4	79.9									30.01		51
ICGP3069	5/12/2016 11:54	3	16.5	0	80.5									29.74		60
ICGP3069	7/25/2016 10:58	18.7	11.8	0	69.5									29.8		67
ICGP3069	7/25/2016 11:02	3.2	15.3	0	81.5									29.8		67
ICGP3069	10/20/2016 11:58	0	0.2	19.6	80.2									29.8		59
ICGP3069	11/18/2016 10:07	2	8.8	10.7	78.5									29.84		41
ICGP3069	12/20/2016 10:10	4.3	16.6	0	79.1									29.95		48
ICGP3081	2/3/2016 9:14	0.9	13.6	4.5	81									29.89		43
ICGP3081	2/3/2016 9:14	0.9	13.6	4.5	81									29.89		43
ICGP3081	3/23/2016 6:47	1.3	14	3.5	81.2									30		51
ICGP3081	5/12/2016 11:59	1.3	15.5	0.5	82.7									29.75		60
ICGP3081	7/25/2016 11:08	1.1	15.7	0	83.2									29.8		67
ICGP3081	10/20/2016 12:03	1.7	15.7	0	82.6									29.68		59
ICGP3081	11/18/2016 10:09	1.3	9.9	9.1	79.7									29.84		41
ICGP3081	12/20/2016 10:16	2.1	16	0	81.9									29.95		48
ICGP3092	2/3/2016 9:19	0	11.1	7.9	81									29.89		43
ICGP3092	2/3/2016 9:19	0	11.1	7.9	81									29.89		43
ICGP3092	5/12/2016 12:06	0	15	0.3	84.7									29.75		60
ICGP3092	7/25/2016 11:15	0	14.8	0	85.2									29.79		67
ICGP3092	10/20/2016 12:10	0	14.7	0.1	85.2									29.69		59
ICGP3092	11/18/2016 10:15	0	15.5	0.3	84.2									29.84		41
ICGP3092	12/20/2016 10:23	0	16	0	84									29.95		48
IC-GP-6D	2/3/2016 7:40	0	2	18.7	79.3									29.88		43
IC-GP-6D	5/12/2016 14:44	0	1.3	18.7	80									29.64		60
IC-GP-6D	7/25/2016 14:36	0	1.6	18.1	80.3									29.78		67
IC-GP-6D	10/20/2016 14:13	0	0.9	19.5	79.6									29.83		59
IC-GP-6S	2/3/2016 7:37	0	2.9	17.3	79.8									29.9		43
IC-GP-6S	5/12/2016 14:43	0	1.5	17.7	80.8									29.64		60
IC-GP-6S	7/25/2016 14:35	0	1.7	17.1	81.2									29.78		67
IC-GP-6S	10/20/2016 14:12	0	0.1	20.6	79.3									29.83		59

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-GPS6D	2/3/2016 8:37	0	8.5	6.7	84.8									29.89		43
IC-GPS6D	5/12/2016 9:36	0	9.4	8	82.6									29.75		60
IC-GPS6D	7/25/2016 12:58	2.2	9.6	0	88.2									29.79		67
IC-GPS6D	10/20/2016 13:31	3.4	11.9	0.9	83.8									29.81		59
IC-GPS6S	2/3/2016 8:35	0	8.5	10.1	81.4									29.9		43
IC-GPS6S	5/12/2016 9:28	0	8.8	8.9	82.3									29.75		60
IC-GPS6S	7/25/2016 12:57	0	1.3	20.5	78.2									29.79		67
IC-GPS6S	10/20/2016 13:21	0.8	13.2	0	86									29.81		59
IC-GP-W1	2/3/2016 8:41	0	1.8	19.2	79									29.89		43
IC-GP-W1	5/12/2016 9:50	0	2.4	17.9	79.7									29.76		60
IC-GP-W1	7/25/2016 13:28	0.3	3.4	18.5	77.8									29.79		67
IC-GP-W1	10/20/2016 13:37	0	0.4	20.1	79.5									29.82		59
IC-HGW-1	2/3/2016 9:42	28.1	15.9	2.2	53.8	44	44	-0.7	-0.7	0.185	0.077	0	0	29.86	-16.5	43
IC-HGW-1	3/23/2016 7:12	17.2	15.3	1.4	66.1	45	45	-0.8	-0.8	-0.091	-0.055	0	0	29.98	-16.68	51
IC-HGW-1	5/12/2016 13:21	31.3	15.5	1.6	51.6	74	73	-1	-1	11.513	11.506	3	3	29.72	-20.46	60
IC-HGW-1	7/25/2016 9:20	44.6	21.5	0	33.9	72	72	-0.4	-0.4	2.853	2.851	1	1	29.79	-5.47	67
IC-HGW-1	11/18/2016 9:06	60.3	24.6	0	15.1	49	49	0	0.1	4.295	4.347	1	1	29.83	-7.5	45
IC-HGW-1	12/20/2016 9:15	55.9	22.4	0	21.7	44	44	-0.5	-0.5	3.914	3.733	1	1	29.87	-7.3	48
IC-HGW-2	2/3/2016 9:47	49.1	21.9	0.1	28.9	50	50	-0.3	-0.3	3.042	3.06	1	1	29.85	-17.4	43
IC-HGW-2	3/23/2016 7:16	39.9	20.8	0	39.3	50	50	-0.5	-0.4	2.473	2.478	1	1	29.98	-17.29	51
IC-HGW-2	5/12/2016 13:31	38	21.4	0.9	39.7	68	68	-0.4	-0.5	3.433	3.448	3	3	29.72	-16.69	60
IC-HGW-2	7/25/2016 9:32	62.8	28.7	0	8.5	72	74	-0.2	-0.2	0.956	0.97	2	2	29.8	-5.59	67
IC-HGW-2	11/18/2016 9:13	67.9	29	0	3.1	57	57	0	0	1.946	2.22	3	3	29.83	-7.45	45
IC-HGW-2	12/20/2016 9:23	65	26.2	0	8.8	51	52	-0.6	-0.6	1.988	2.309	3	3	29.88	-7.28	48
IC-HGW-3	2/3/2016 9:49	34	23.2	0	42.8	46	46	0	0	2.212	2.239	1	1	29.85	-17.37	43
IC-HGW-3	3/23/2016 7:18	34.1	22.3	0	43.6	47	47	-0.1	-0.1	2.067	2.055	1	1	29.98	-17.25	51
IC-HGW-3	5/12/2016 13:33	40.8	23.2	0.9	35.1	33	69	-0.1	-0.1	11.915	11.94	3	3	29.71	-15.25	60
IC-HGW-3	7/25/2016 9:36	62.2	31.4	0	6.4	77	77	0	0	3.934	3.974	1	1	29.79	-5.6	67
IC-HGW-3	11/18/2016 9:19	58.6	32.1	0	9.3	53	53	0.1	0.1	7.85	7.835	2	2	29.82	-7.53	45
IC-HGW-3	12/20/2016 9:27	50.6	28.5	0	20.9	50	50	-0.7	-0.7	6.966	7.054	2	2	29.88	-7.41	48
IC-HGW-4	2/3/2016 9:52	48.1	23.9	0	28	46	46	0.1	0.1	2.881	2.948	1	1	29.86	-17.55	43
IC-HGW-4	3/23/2016 7:21	44.5	24.3	0	31.2	47	47	0	0	2.784	2.778	1	1	29.98	-17.61	51
IC-HGW-4	5/12/2016 13:39	53.9	26.3	0.7	19.1	71	71	-0.1	-0.1	9.629	9.921	2	2	29.72	-12.97	60
IC-HGW-4	7/25/2016 9:43	57.8	30.8	0	11.4	75	75	-0.1	-0.1	3.891	3.9	1	1	29.79	-5.6	67
IC-HGW-4	11/18/2016 9:26	56.8	30	0	13.2	53	53	0.2	0.2	5.534	5.43	2	2	29.83	-7.61	45
IC-HGW-4	12/20/2016 9:31	51.9	26.7	0	21.4	48	48	-0.9	-0.9	4.801	4.797	2	2	29.9	-7.4	48
IC-HGW-5	2/3/2016 9:54	38	20.1	0	41.9	46	47	0.2	0.2	2.622	2.639	1	1	29.86	-17.62	43
IC-HGW-5	3/23/2016 7:24	47.9	22.7	0	29.4	48	48	0	0	2.478	2.499	1	1	29.98	-17.59	51
IC-HGW-5	5/12/2016 13:42	48	24.4	0.5	27.1	73	73	0	0	6.796	6.778	2	2	29.72	-12.22	60
IC-HGW-5	7/25/2016 9:48	58.6	30.2	0	11.2	77	77	0	0	2.915	2.899	1	1	29.79	-5.68	67
IC-HGW-5	11/18/2016 9:30	51.6	26.8	0	21.6	53	53	0.3	0.3	4.324	4.235	1	1	29.83	-7.74	45
IC-HGW-5	12/20/2016 9:34	52.4	25.3	0	22.3	47	47	-1	-1	3.328	3.439	1	1	29.91	-7.55	48
IC-HGW-6	2/3/2016 9:56	38.1	16	0	45.9	45	45	0.1	0.1	1.822	1.769	1	1	29.86	-17.7	43
IC-HGW-6	3/23/2016 7:26	35.8	14.3	0	49.9	48	48	0	0	2.131	2.137	1	1	29.98	-17.51	51
IC-HGW-6	5/12/2016 13:44	35.3	17.1	0.8	46.8	72	72	0	0	6.874	6.797	2	2	29.72	-10.41	60
IC-HGW-6	7/25/2016 9:51	45.4	26.8	0	27.8	77	77	0	0	3.349	3.394	1	1	29.79	-5.79	67
IC-HGW-6	11/18/2016 9:32	48.5	22.6	0	28.9	52	53	0.2	0.2	5.101	4.964	2	2	29.83	-7.88	45
IC-HGW-6	12/20/2016 9:36	48.3	18.7	0	33	47	47	-0.9	-0.9	4.099	4.289	1	1	29.91	-7.71	48
IC-HGW-7	2/3/2016 10:00	34.9	17.7	0	47.4	45	45	0.1	0.1	0.963	0.945	0	0	29.86	-17.72	43
IC-HGW-7	3/23/2016 7:31	29.1	15.6	0	55.3	47	47	0	0	0.902	0.907	0	0	29.98	-17.71	51
IC-HGW-7	5/12/2016 13:48	32	12.6	0.8	54.6	74	74	-0.1	-0.1	6.439	6.522	2	2	29.72	-9.6	60
IC-HGW-7	7/25/2016 9:58	46.9	21.1	0	32	76	76	-0.1	-0.1	3.589	3.607	1	1	29.79	-5.89	67
IC-HGW-7	11/18/2016 9:37	48	21.4	0	30.6	52	53	0.2	0.2	4.961	5.057	2	2	29.83	-7.83	45
IC-HGW-7	12/20/2016 9:40	46.4	19.6	0	34	47	47	-1	-1	4.141	4.232	1	1	29.92	-7.65	48
IC-HGW-8	2/3/2016 10:02	31.7	15.9	0	52.4	45	45	0.1	0.1	0.75	0.752	0	0	29.87	-17.74	43
IC-HGW-8	3/23/2016 7:34	25.9	14.9	0	59.2	47	47	0	0	0.71	0.695	0	0	29.99	-17.48	51
IC-HGW-8	5/12/2016 13:56	23.3	16	0.7	60	80	79	0	0	-0.008	-0.006	0	0	29.73	-9.56	60
IC-HGW-8	7/25/2016 10:08	38.4	18.6	0	43	78	77	-0.2	-0.2	3.614	3.602	1	1	29.8	-5.46	67
IC-HGW-8	11/18/2016 9:42	43.8	18.9	0	37.3	54	54	0.2	0.2	5.51	5.484	2	2	29.84	-8.07	45
IC-HGW-8	12/20/2016 9:43	42.5	17.3	0	40.2	47	47	-0.7	-0.8	4.552	4.577	1	2	29.93	-7.79	48

Table 8. Landfill Gas Monitoring Data
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-HGW-9	2/3/2016 10:09	0.8	1.2	19.7	78.3	44	44	-4.1	-4.3	0.266	0.115	1	0	29.87	-18.02	43
IC-HGW-9	3/23/2016 7:43	22.9	12.3	8.6	56.2	46	46	-5.3	-6.6	0.243	0.45	1	1	30	-17.58	51
IC-HGW-9	5/12/2016 14:03	0.1	4.1	18.5	77.3	71	71	-2.4	-2.4	0.096	0.097	0	0	29.73	-9.72	60
IC-HGW-9	7/25/2016 10:20	2	1.8	19.1	77.1	79	80	-1.1	-1	0.012	0.004	0	0	29.8	-5.11	67
IC-HGW-9	11/18/2016 9:51	50.4	18.2	0	31.4	42	42	0	0	-0.127	-0.06			29.84	-7.85	45
IC-HGW-9	12/20/2016 9:54	20.7	7.3	12.5	59.5	44	44	0	0	-0.061	-0.01	0	0	29.93	-8.6	48
IC-SC-OF	2/4/2016 9:37	0	0.4	20.6	79									30.14		45
IC-SC-OF	5/12/2016 11:30	0	0.8	20.6	78.6									29.75		60
IC-SC-OF	7/25/2016 12:42	0	0.3	20.9	78.8									29.79		67
IC-SC-OF	10/20/2016 13:05	0	0.2	20.3	79.5									29.81		59
IC-SH-BA	2/4/2016 9:35	0	0.4	20.8	78.8									30.14		45
IC-SH-BA	5/12/2016 11:31	0	0.5	20.7	78.8									29.75		60
IC-SH-BA	7/25/2016 12:41	0	0.7	20.6	78.7									29.79		67
IC-SH-BA	10/20/2016 13:04	0	0.3	20.2	79.5									29.81		59
IC-T--LG	2/3/2016 9:24	28.3	16.2	1.5	54	46	46	-18.7	-18.6	18.867	18.474	0	0	29.89		43
IC-T--LG	3/23/2016 7:01	26.7	16.6	0.7	56	49	49	-18.1	-18.1	18.229	18.012	0	0	30		51
IC-T--LG	12/20/2016 10:57	48.6	19.7	0	31.7	46	46	-8.8	-8.7	8.873	8.853	0	0	29.94		48
IC-T--SV	2/3/2016 9:26	13	14.3	3	69.7	48	46	-19.2	-18.8	19.257	18.768	0	0	29.89		43
IC-T--SV	3/23/2016 6:59	11.7	16.1	0.6	71.6	48	48	-16.2	-16.3	16.326	16.321	0	0	30		51
IC-T--SV	12/20/2016 10:55	2.3	15.1	0.6	82	46	46	-21.3	-21.2	21.378	21.361	0	0	29.96		48
IC-VGW-1	2/3/2016 9:44	1.1	15	0	83.9	42	42	-0.1	-0.1	6.474	6.197	2	2	29.85	-18.73	43
IC-VGW-1	3/23/2016 7:13	1.7	14.9	0	83.4	47	47	-0.7	-0.7	1.339	1.328	2	2	29.98	-16.43	51
IC-VGW-1	5/12/2016 13:25	1.5	13.1	1.1	84.3	73	73	-0.9	-0.9	4.414	4.428	4	4	29.72	-8.71	60
IC-VGW-1	11/18/2016 9:08	2.2	16.1	0	81.7	47	47	-1.5	-1.5	10.729	10.724	6	6	29.82	-20.57	45
IC-VGW-1	12/20/2016 9:17	2.4	15.8	0	81.8	40	40	-3	-3	10.251	10.079	6	6	29.87	-20.85	48
IC-VGW-2	2/3/2016 9:45	39.9	10	0	50.1	42	42	0	0	1.697	1.716	1	1	29.85	-17.28	43
IC-VGW-2	3/23/2016 7:15	42.9	11.2	0	45.9	47	47	-0.3	-0.3	2.399	2.389	1	1	29.98	-17.19	51
IC-VGW-2	5/12/2016 13:28	38.2	11.7	0.5	49.6	72	71	-0.4	-0.4	12.687	12.894	3	3	29.72	-18.49	60
IC-VGW-2	7/25/2016 9:30	46.3	15.5	0	38.2	75	75	-0.3	-0.3	3.492	3.449	1	1	29.72	-5.57	67
IC-VGW-2	11/18/2016 9:11	54.1	13.3	0	32.6	45	45	0	0	5.005	5.221	2	2	29.83	-7.27	45
IC-VGW-2	12/20/2016 9:21	49.9	13	0	37.1	41	41	-0.9	-0.9	4.565	4.384	2	2	29.87	-7.3	48
IC-VGW-3	2/3/2016 9:51	34.1	15.3	0	50.6	43	43	0.1	0.1	1.978	1.971	1	1	29.85	-17.42	43
IC-VGW-3	3/23/2016 7:19	44.1	16.2	0	39.7	46	46	-0.1	-0.1	0.675	0.669	0	0	29.98	-16.59	51
IC-VGW-3	5/12/2016 13:37	32.9	16.3	0.9	49.9	69	69	-0.4	-0.4	11.26	11.342	3	3	29.72	-13.99	60
IC-VGW-3	7/25/2016 9:39	44.2	17.6	0	38.2	76	76	-0.3	-0.3	3.99	4.045	1	1	29.79	-5.17	67
IC-VGW-3	11/18/2016 9:24	48.4	18.5	0	33.1	45	45	0	0	6.143	6.266	2	2	29.83	-7.61	45
IC-VGW-3	12/20/2016 9:29	47.4	17.6	0	35	41	41	-1.3	-1.3	4.822	4.977	2	2	29.89	-7.45	48
IC-VGW-4	2/3/2016 9:58	38.9	8.9	0	52.2	42	42	0.1	0.1	2.053	2.02	1	1	29.86	-17.82	43
IC-VGW-4	3/23/2016 7:28	41.3	9.9	0	48.8	47	47	-0.2	-0.2	1.879	1.889	1	1	29.98	-17.5	51
IC-VGW-4	5/12/2016 13:46	30.9	10.7	0.9	57.5	71	71	-0.3	-0.3	6.558	6.526	2	2	29.72	-10.42	60
IC-VGW-4	7/25/2016 9:53	35.9	17.1	0	47	77	77	-0.3	-0.3	3.136	3.109	1	1	29.79	-5.75	67
IC-VGW-4	11/18/2016 9:34	44.4	11.4	0	44.2	45	45	0	0	5.117	4.923	2	2	29.83	-7.8	45
IC-VGW-4	12/20/2016 9:38	41.8	10.4	0	47.8	39	39	-1.5	-1.5	3.762	3.91	1	1	29.91	-7.65	48
IC-VGW-5	2/3/2016 10:01	0.6	16.1	0	83.3	44	44	0.3	0.3	0.301	0.306	0	0	29.87	-18.91	43
IC-VGW-5	3/23/2016 7:32	1.4	16.1	0	82.5	46	46	0	0	0.217	0.217	0	0	29.99	-16.43	51
IC-VGW-5	5/12/2016 13:50	2.3	12	0.9	84.8	74	75	-0.3	-0.3	4.327	4.359	1	1	29.72	-7.22	60
IC-VGW-5	7/25/2016 10:01	1.2	15.7	0	83.1	74	74	-0.5	-0.4	4.072	4.06	1	1	29.8	-7.31	67
IC-VGW-5	11/18/2016 9:39	1.3	16.9	0	81.8	47	47	0	0	14.069	14.121	3	3	29.84	-20.37	45
IC-VGW-5	12/20/2016 9:41	2	18.1	0	79.9	39	38	-2.2	-2.2	13.189	13.129	3	3	29.92	-21.2	48
IC-VGW-6	2/3/2016 10:04	19.7	15.1	0	65.2	42	42	0	0	1.056	1.05	0	0	29.87	-17.69	43
IC-VGW-6	3/23/2016 7:35	25.8	13	0	61.2	46	46	-0.1	-0.1	0.962	0.958	0	0	29.99	-17.53	51
IC-VGW-6	5/12/2016 13:57	20.5	14	0.7	64.8	77	77	0	0	-0.007	-0.02	0	0	29.72	-9.67	60
IC-VGW-6	7/25/2016 10:10	24.4	14.9	0	60.7	77	77	-0.3	-0.3	2.961	2.978	1	1	29.8	-5.26	67
IC-VGW-6	11/18/2016 9:43	34.4	17.2	0	48.4	44	44	0	0	5.151	5.223	2	2	29.84	-8.15	45
IC-VGW-6	12/20/2016 9:45	29.1	14.6	0	56.3	39	39	-1.3	-1.3	4.054	4.186	1	1	29.93	-7.76	48

Table 8. Landfill Gas Monitoring Data
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-VGW-7	2/3/2016 10:08	0.3	16.6	1.5	81.6	44	44	0.1	0.1	1.528	1.506	1	1	29.88	-19.03	43
IC-VGW-7	3/23/2016 7:39	1.5	18.9	0	79.6	46	46	-0.2	-0.2	1.207	1.216	0	0	30	-16.37	51
IC-VGW-7	5/12/2016 14:01	1.3	15.5	1.5	81.7	70	70	0	0	-0.033	-0.027	0	0	29.73	-7.6	60
IC-VGW-7	7/25/2016 10:17	1.1	17.8	0	81.1	76	76	0	0	0	-0.003	0	0	29.81	-7.51	67
IC-VGW-7	11/18/2016 9:49	0	1.5	18.9	79.6	42	42	0.4	0.4	-0.024	-0.022			29.84	-14.65	45
IC-VGW-7	12/20/2016 9:51	0.2	5.7	14.4	79.7	42	42	0	0	-0.008	-0.002	0	0	29.93	-18.65	48
IC-VGW-8	2/3/2016 10:06	17.7	16.7	2.5	63.1	46	46	0	0	-0.002	-0.002	0	0	29.87	-18	43
IC-VGW-8	3/23/2016 7:38	18.1	16.7	2.4	62.8	46	46	0	0	-0.004	-0.013	0	0	30	-17.17	51
IC-VGW-8	5/12/2016 13:59	16.8	13.7	3.3	66.2	74	74	0	0	-0.028	-0.032	0	0	29.73	-9.71	60
IC-VGW-8	7/25/2016 10:15	16.8	15.2	1.8	66.2	75	76	0	0	-0.004	0	0	0	29.8	-4.62	67
IC-VGW-8	11/18/2016 9:46	16.7	14.8	3.5	65	42	42	0	0	-0.024	-0.022			29.84	-7.92	45
IC-VGW-8	12/20/2016 9:49	16.6	14.4	3.5	65.5	41	41	0	0	-0.044	-0.015	0	0	29.93	-8.41	48
IC-VGW-9	2/3/2016 10:11	0	5.3	12.5	82.2	43	43	0.1	0.1	0.991	0.95	0	0	29.88	-18.51	43
IC-VGW-9	3/23/2016 7:45	0.1	6.4	12	81.5	47	47	-0.1	-0.1	0.884	0.895	0	0	30	-16.12	51
IC-VGW-9	5/12/2016 14:04	0	3.4	11.8	84.8	77	77	0	-0.1	0.391	0.394	0	0	29.73	-7.76	60
IC-VGW-9	7/25/2016 10:23	0	6	10.6	83.4	77	77	-0.2	-0.2	0.39	0.391	0	0	29.8	-7.7	67
IC-VGW-9	11/18/2016 9:59	0	7.2	10.4	82.4	44	44	0.2	0.1	1.903	1.876	1	1	29.84	-20.45	45
IC-VGW-9	12/20/2016 9:57	0.5	7.3	10.4	81.8	41	41	-1	-1.1	1.85	1.86	1	1	29.93	-21.16	48

Table 9. Source Control Operations Data
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Coupeville Solid Waste Facility, Island County, Washington

Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
10/25/2005			1	6	
11/2/2005			102	763	
11/15/2005			150	1,122	
11/22/2005	43,010	49,194	150	1,122	
11/29/2005	43,069	49,267	217	1,623	
12/5/2005	43,069	49,267	217	1,623	
12/13/2005	43,147	49,434	217	1,623	
12/20/2005	43,190	49,519	229	1,713	
12/27/2005	43,217	49,603	317	2,371	
1/3/2006	43,259	49,688	420	3,142	
1/10/2006	43,295	49,722	584	4,368	
1/17/2006	43,325	49,816	699	5,229	
1/24/2006	43,384	49,940	768	5,745	
1/31/2006	43,431	50,036	884	6,612	
2/7/2006	43,465	50,990	997	7,458	
2/14/2006	43,506	50,184	1,020	7,630	
2/21/2006	43,539	50,268	1,037	7,757	pump failure
2/28/2006	43,587	50,351	1,113	8,325	
3/7/2006	43,628	50,435	1,121	8,385	
3/14/2006	43,670	50,519	1,147	8,580	
3/21/2006	43,710	50,603	1,169	8,744	
3/28/2006	43,752	50,687	1,185	8,864	
4/4/2006	43,782	50,768	1,224	9,156	
4/11/2006	43,845	50,854	1,288	9,634	
4/18/2006	43,881	50,938	1,415	10,584	
4/25/2006	43,924	51,021	1,441	10,779	
5/2/2006	43,977	51,106	1,459	10,913	
5/9/2006	44,018	51,190	1,465	10,958	
5/16/2006	44,057	51,274	1,466	10,966	
5/23/2006	44,118	51,357	1,468	10,981	
5/30/2006	44,166	51,442	1,485	11,104	
6/6/2006	44,214	51,526	1,501	11,227	
6/13/2006	44,257	51,610	1,506	11,265	
6/20/2006	44,309	51,693	1,508	11,280	
6/27/2006	44,350	51,778	1,508	11,280	
7/4/2006	44,375	51,862	1,508	11,280	
7/11/2006	44,400	51,944	1,508	11,280	
7/18/2006	44,511	52,026	1,510	11,295	
7/25/2006	44,577	52,113	1,510	11,295	
8/1/2006	44,637	52,193	1,510	11,295	
8/8/2006	44,700	52,278	1,511	11,302	
8/15/2006	44,763	52,362	1,511	11,302	
8/22/2006	44,817	52,439	1,511	11,302	
8/29/2006	44,872	52,517	1,511	11,302	
9/5/2006	44,943	52,614	1,511	11,302	
9/13/2006	45,014	52,710	1,511	11,302	
9/18/2006	45,068	52,782	1,518	11,355	
9/26/2006	45,131	52,866	1,528	11,429	
10/3/2006	45,195	52,952	1,529	11,437	
10/10/2006	45,259	53,036	1,531	11,452	3ft condensate
10/17/2006	45,324	53,122	1,549	11,587	
10/31/2006	45,447	53,288	1,647	12,320	
11/7/2006	45,500	53,371	1,805	13,501	
11/14/2006	45,563	53,455	2,209	16,523	
11/21/2006	45,618	53,528	2,326	17,398	
11/28/2006	45,680	53,612	2,528	18,909	
12/5/2006	45,746	53,700	2,715	20,308	4ft condensate
12/12/2006	45,802	53,776	2,764	20,675	
12/19/2006	45,854	53,844	2,888	21,602	
12/26/2006	45,921	53,933	3,027	22,642	
1/1/2007	45,966	54,000	3,150	23,562	
1/2/2007	45,982	54,016	3,180	23,786	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
1/9/2007	46,039	54,094	3,415	25,544	
1/16/2007	46,096	54,176	3,487	26,083	
1/23/2007	46,156	54,257	3,566	26,674	
1/30/2007	46,223	54,346	3,604	26,958	
2/7/2007	46,290	54,437	3,627	27,130	
2/13/2007	46,344	54,509	3,647	27,280	
2/20/2007	46,397	54,593	3,682	27,541	
2/27/2007	46,460	54,676	3,743	27,998	
3/6/2007	46,525	54,763	3,788	28,334	
3/13/2007	46,580	54,841	3,822	28,589	
3/20/2007	46,643	54,926	3,856	28,843	
3/27/2007	46,707	55,011	3,961	29,628	
4/3/2007	46,762	55,096	4,000	29,920	
4/10/2007	46,813	55,178	4,023	30,092	
4/17/2007	46,876	55,262	4,038	30,204	
4/24/2007	46,938	55,345	4,055	30,331	
5/1/2007	47,001	55,429	4,064	30,399	
5/8/2007	47,064	55,514	4,068	30,429	
5/15/2007	47,127	55,597	4,068	30,429	
5/22/2007	47,190	55,683	4,070	30,444	
5/29/2007	47,253	55,766	4,071	30,451	
6/5/2007	47,377	55,850	4,071	30,451	
6/12/2007	47,440	55,932	4,072	30,459	
6/19/2007	47,440	56,102	4,072	30,459	
6/26/2007	47,495	56,185	4,073	30,465	
7/3/2007	47,588	56,185	4,073	30,469	
7/10/2007	47,620	56,269	4,074	30,470	
7/17/2007	47,684	56,354	4,075	30,478	
7/24/2007					
7/31/2007	47,811	56,524	4,075	30,482	
8/7/2007	47,873	56,606	4,075	30,482	
8/14/2007	47,946	56,703	4,075	30,482	
8/21/2007	47,998	56,773	4,075	30,482	
8/28/2007	48,061	56,858	4,075	30,482	
9/4/2007	48,126	56,944	4,075	30,482	Impeller Stuck
9/11/2007	48,186	57,025	4,075	30,483	
9/18/2007	48,249	57,109	4,077	30,494	
9/24/2007	48,311	57,193	4,083	30,539	
10/2/2007	48,372	57,278	4,098	30,656	
10/9/2007	48,434	57,360			
10/24/2007	48,566	57,541	4,144	30,999	
10/30/2007	48,614	57,613	4,168	31,178	
11/7/2007	48,676	57,698	4,178	31,252	
11/13/2007	48,739	57,782	4,240	31,718	
11/21/2007	48,812	57,879	4,324	32,344	
11/27/2007	48,864	57,949	4,344	32,493	
12/4/2007	48,927	58,033	4,415	33,024	
12/11/2007	48,995	58,124	4,453	33,307	
12/18/2007	49,052	58,202	4,501	33,666	
12/24/2007	49,110	58,358	4,583	34,281	
12/31/2007	49,169	58,359	4,682	35,021	
1/8/2008	49,243	58,510	4,789	35,822	
1/15/2008	49,303	58,544	4,889	36,570	
1/22/2008	49,359	58,622	4,961	37,108	
1/29/2008	49,408	58,705	4,993	37,348	
1/30/2008	49,425	58,726			8.75ft condensate
2/5/2008	49,469	58,790	5,043	37,722	
2/13/2008	49,541	58,886	5,205	38,933	
2/19/2008	49,595	58,958	5,243	39,218	
2/25/2008	49,657	59,041	5,263	39,367	
3/4/2008	49,720	59,126	5,278	39,479	
3/11/2008	49,781	59,208	5,290	39,569	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
3/18/2008	49,844	59,292	5,345	39,981	
3/25/2008	49,907	59,376	5,400	40,392	
4/1/2008	49,970	59,461	5,483	41,013	
4/8/2008	50,035	59,547	5,537	41,417	
4/15/2008	50,096	59,629	5,572	41,679	
4/22/2008	50,158	59,712	5,605	41,925	
4/23/2008	50,173	59,730			7.70ft condensate
4/29/2008	50,221	59,796	5,633	42,135	
5/6/2008	50,280	59,879	5,672	42,427	
5/13/2008	50,344	59,965	5,685	42,524	
5/20/2008	50,407	60,048	5,726	42,830	
5/27/2008	50,470	60,133	5,747	42,988	
6/3/2008	50,529	60,217	5,757	43,062	
6/10/2008	50,591	60,301	5,804	43,414	
6/17/2008	50,654	60,385	5,854	43,788	
6/24/2008	50,717	60,469	5,868	43,893	
7/1/2008	50,780	60,553	5,872	43,923	
7/8/2008	50,840	60,639	5,874	43,938	
7/15/2008	50,895	60,716	5,875	43,945	
7/23/2008	50,964	60,809	5,875	43,945	
7/29/2008	51,021	60,883	5,876	43,952	
8/5/2008	51,084	60,968	5,877	43,960	
8/12/2008	51,140	61,049	5,877	43,960	
8/19/2008	51,201	61,134	5,878	43,967	
8/27/2008	51,275	61,232	5,890	44,057	
9/2/2008	51,326	61,301	5,891	44,065	
9/9/2008	51,389	61,385	5,892	44,072	
9/16/2008	51,450	61,469	5,892	44,072	
9/23/2008	51,506	61,553	5,895	44,095	
9/29/2008	51,568	61,637	5,897	44,110	
10/8/2008	51,640	61,733	5,899	44,125	
10/14/2008	51,694	61,805	5,900	44,132	
10/21/2008	51,757	61,892	5,906	44,177	
10/28/2008	51,820	61,973	5,907	44,184	
11/4/2008	51,884	62,059	5,946	44,476	
11/11/2008	51,945	62,141	6,221	46,533	
11/18/2008	52,001	62,227	6,378	47,707	
11/25/2008	52,062	62,309	6,406	47,917	
12/2/2008					
12/9/2008	52,179	62,478	6,510	48,695	
12/16/2008	52,235	62,563	6,603	49,390	
12/23/2008	52,252	62,648	6,643	49,690	
12/30/2008	52,302	62,730	6,891	51,545	
12/31/2008	52,316	62,748	6,970	52,136	
1/13/2009	52,431	62,902	7,251	54,237	
1/21/2009	52,480	62,995	7,312	54,694	
1/27/2009	52,523	63,068	7,330	54,828	
2/4/2009	52,593	63,162	7,345	54,941	
2/10/2009	52,657	63,243	7,371	55,135	
2/17/2009	52,713	63,323	7,387	55,255	
2/24/2009	52,769	63,402	7,406	55,397	
3/3/2009	52,829	63,487	7,470	55,876	
3/10/2009	52,891	63,569	7,524	56,280	
3/17/2009	52,957	63,657	7,567	56,601	
3/23/2009	53,015	63,737	7,593	56,796	
3/31/2009	53,078	63,822	7,664	57,327	
4/7/2009	53,141	63,906	7,837	58,621	
4/14/2009	53,208	63,989	7,866	58,838	
4/21/2009	53,223	64,074	7,881	58,950	
4/28/2009	53,318	64,158	7,888	59,002	
5/5/2009	53,380	64,244	7,991	59,773	
5/12/2009	53,440	64,325	7,934	59,346	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
5/18/2009	53,499	64,325			
5/19/2009	53,502	64,408	7,975	59,653	
5/26/2009	53,563	64,490	8,006	59,885	
6/3/2009	53,635	64,586	8,006	59,885	
6/11/2009	53,689	64,659	8,007	59,892	
6/16/2009	53,754	64,744	8,007	59,892	
6/23/2009	53,814	64,826	8,008	59,900	
6/25/2009	53,037	64,854			
6/30/2009	53,879	64,913	8,008	59,900	
7/7/2009	54,002	65,080	8,008	59,900	
7/14/2009	53,937	64,994	8,008	59,900	
7/16/2009	54,023	65,107			
7/21/2009	54,063	65,162	8,008	59,900	
7/28/2009	54,126	65,246	8,010	59,915	
8/4/2009	54,189	65,330	8,010	59,915	
8/11/2009	54,254	65,416	8,011	59,922	
8/18/2009	54,314	65,497	8,012	59,930	
8/25/2009	54,377	65,582	8,012	59,930	
9/1/2009	54,440	65,666	8,012	59,930	
9/8/2009	54,503	65,750	8,014	59,945	
9/15/2009	54,565	65,833	8,014	59,945	
9/22/2009	56,429	65,918	8,020	59,990	
9/29/2009	54,690	66,002	8,023	60,012	
10/6/2009	54,753	66,085	8,033	60,087	
10/13/2009	54,816	66,170	8,034	60,094	
10/20/2009	54,880	66,254	8,140	60,887	
10/27/2009	54,943	66,339	8,238	61,620	
11/3/2009	55,008	66,425	8,452	63,221	
11/10/2009	55,069	66,507	8,524	63,760	
11/17/2009	55,131	66,591	8,581	64,186	
11/24/2009	55,192	66,673	8,834	66,078	
12/1/2009	55,256	66,759	9,002	67,335	
12/8/2009					
12/15/2009	55,372	66,927	9,059	67,761	
12/22/2009	55,432	67,010	9,206	68,861	
12/29/2009	55,487	67,095	9,286	69,459	
1/5/2010	55,549	67,178	9,383	70,185	
1/12/2010	55,616	67,266	9,528	71,269	
1/19/2010	55,676	67,348	9,651	72,189	
1/26/2010	55,739	67,432	9,712	72,646	
2/2/2010	55,800	67,515	9,765	73,042	
2/9/2010	55,849	67,601	9,811	73,386	
2/16/2010	55,909	67,683	9,909	74,119	
2/23/2010	55,963	67,767	9,962	74,516	
3/2/2010	56,008	67,851	9,991	74,730	
3/9/2010	50,071	67,935	10,006	74,848	
3/16/2010	56,012	68,018	10,044	75,129	
3/23/2010	56,182	68,101	10,067	75,303	
3/30/2010	56,243	68,188	10,096	75,518	
4/7/2010	56,316	68,287	10,156	75,967	
4/14/2010	56,391	68,364	10,222	76,461	
4/21/2010	56,459	68,440	10,240	76,595	
4/27/2010	56,575	68,522	10,283	76,917	
5/4/2010	56,649	68,606	10,335	77,306	
5/11/2010	56,730	68,689	10,356	77,463	
5/18/2010	56,874	68,776	10,367	77,545	
5/25/2010	56,914	68,826	10,379	77,635	
6/1/2010	56,969	68,909	10,625	79,475	
6/8/2010	57,035	68,997	10,748	80,395	
6/15/2010	57,073	69,078	10,813	80,881	
6/22/2010	57,115	69,162	10,829	81,001	
6/28/2010	57,156	69,246	10,833	81,031	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
7/6/2010	57,197	69,331	10,836	81,053	
7/13/2010	57,235	69,323	10,837	81,061	
7/20/2010	57,279	69,497	10,837	81,061	
7/27/2010	57,320	69,581	10,837	81,061	
8/3/2010	57,362	69,665	10,837	81,063	
8/11/2010	57,410	69,761	10,841	81,088	
8/17/2010	57,441	69,835	10,841	81,089	
8/25/2010	57,493	69,940	10,841	81,089	
8/31/2010	57,520	70,001	10,844	81,113	
9/7/2010	57,562	70,085	10,867	81,285	
9/15/2010	57,610	70,185	10,873	81,330	
9/21/2010	57,643	70,253	10,933	81,779	
9/28/2010	57,684	70,336	10,988	82,190	
10/5/2010	57,720	70,422	11,014	82,385	
10/12/2010	57,759	70,506	11,043	82,602	
10/19/2010	57,798	70,588	11,057	82,706	
10/26/2010	57,836	70,673	11,067	82,781	
11/2/2010	57,878	70,757	11,083	82,897	
11/9/2010	57,920	70,845	11,116	83,148	
11/16/2010					
12/8/2010	58,059	71,178	11,581	86,626	
12/14/2010	58,094	71,249	11,877	88,840	
1/4/2011	58,192	71,500	12,107	90,558	
1/11/2011	58,228	71,585	12,419	92,894	
1/18/2011	58,271	71,670	12,832	95,983	
1/25/2011	58,311	71,756	12,927	96,694	
2/1/2011	58,350	71,837	12,928	96,698	
2/8/2011	58,386	71,920	12,928	96,698	
2/15/2011	58,419	72,004	12,928	96,698	
2/22/2011	58,457	72,091	12,928	96,698	
3/1/2011	58,487	72,173	12,995	97,200	
3/8/2011	58,525	72,259	13,090	97,911	
3/15/2011	58,555	72,340	13,172	98,523	
3/22/2011	58,593	72,422	13,172	98,523	
3/29/2011	58,632	72,508	13,295	99,443	
4/5/2011	58,690	72,593	13,355	99,894	
4/12/2011	58,730	72,674	13,371	100,018	
4/19/2011	58,772	72,760	13,371	100,018	
4/26/2011	58,814	72,844	13,371	100,018	
5/3/2011	58,855	72,926	13,400	100,232	
5/10/2011	58,898	73,012	13,492	100,916	
5/17/2011	58,939	73,096	13,704	102,507	
5/24/2011	58,978	73,180	13,750	102,850	
5/31/2011	58,021	73,265	13,774	103,030	
6/7/2011	59,061	73,346	13,780	103,074	
6/15/2011	59,111	73,446	13,781	103,082	
6/22/2011	59,145	73,516	13,783	103,098	
6/28/2011	59,186	73,591	13,784	103,104	
7/5/2011	59,228	73,683	13,784	103,104	
7/12/2011	59,262	73,767	13,784	103,107	
7/19/2011	59,276	73,851	13,787	103,127	
7/26/2011	59,282	73,934	13,791	103,153	
8/2/2011	59,288	74,019	13,791	103,153	
8/9/2011	59,328	74,103	13,791	103,153	
8/16/2011	59,368	74,184	13,791	103,154	
8/23/2011	59,407	74,267	13,792	103,164	
8/31/2011	59,474	74,365	13,792	103,164	
9/5/2011	59,528	74,436	13,792	103,164	
9/13/2011	59,571	74,520	13,791	103,157	
9/22/2011	59,680	74,631	13,792	103,165	
9/27/2011	59,743	74,688	13,793	103,172	
10/4/2011	59,818	74,772	13,795	103,187	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
10/11/2011	59,898	74,855	13,796	103,190	
10/18/2011	59,957	74,940	13,796	103,192	
10/25/2011	60,016	75,023	13,798	103,212	
11/1/2011	60,127	75,108	13,798	103,212	
11/8/2011	60,256	75,193	13,798	103,212	
11/16/2011	60,347	75,290	13,798	103,212	
11/22/2011	60,382	75,361	13,875	103,785	
12/6/2011	60,460	75,532	14,368	107,473	
12/13/2011	60,497	75,614	14,408	107,770	
12/20/2011	60,538	75,699	14,445	108,046	
12/27/2011	60,562	75,787	14,481	108,318	
1/3/2012	60,599	75,865	14,569	108,976	
1/10/2012	60,659	75,949	14,649	109,572	
1/17/2012			14,705	109,993	
1/24/2012	30,740	76,117	15,056	112,619	
1/31/2012	60,781	76,201	15,180	113,546	
2/7/2012	60,823	76,286	15,273	114,242	
2/14/2012	60,868	76,373	15,405	115,229	
2/21/2012	60,906	76,453	15,658	117,123	
2/28/2012	60,951	76,541	16,987	127,063	
3/6/2012	60,990	76,621	16,193	121,121	
3/13/2012	61,032	76,706	16,499	123,410	
3/20/2012	61,073	76,789	16,720	125,062	
3/27/2012	61,115	76,873	16,882	126,280	
4/3/2012	61,157	76,957	16,994	127,111	
4/10/2012	61,234	77,040	17,174	128,458	
4/17/2012	61,295	77,124	17,248	129,014	
4/24/2012	61,338	77,209	17,418	130,287	
5/1/2012	61,380	77,293	17,652	132,037	
5/8/2012	61,439	77,376	18,090	135,313	
5/15/2012	61,534	77,462	18,137	135,665	
5/22/2012	61,611	77,545	18,159	135,829	
5/29/2012	61,672	77,628	18,191	136,069	
6/5/2012	61,714	77,712	18,214	136,241	
6/12/2012	61,756	77,796	18,229	136,353	
6/19/2012	61,823	77,880	18,240	136,435	
6/26/2012	61,864	77,964	18,360	137,333	
7/3/2012	61,907	78,046	18,409	137,699	
7/10/2012	61,948	78,133	18,441	137,939	
7/18/2012	61,996	78,229	18,471	138,166	
7/24/2012	62,031	78,300	18,507	138,435	
7/31/2012	62,073	78,385	18,523	138,551	
8/7/2012	62,117	78,471	18,527	138,579	
8/14/2012	62,157	78,553	18,527	138,583	
8/21/2012	62,201	78,640	18,527	138,583	
8/28/2012	62,240	78,720	18,527	138,583	
9/4/2012	62,284	78,807	18,528	138,589	
9/11/2012	62,330	78,899	18,529	138,597	
9/18/2012	62,366	78,973	18,529	138,598	
9/25/2012	62,407	79,056	18,529	138,598	
10/2/2012	62,449	79,139	18,529	138,598	
10/9/2012	62,491	79,225	18,529	138,598	
10/16/2012	62,534	79,310	18,544	138,709	
10/22/2012	62,575	79,393	18,576	138,948	
11/13/2012	62,703	79,649	18,837	140,901	
11/20/2012	62,742	79,728	19,150	143,242	
11/27/2012	62,781	79,814	19,402	145,127	
12/4/2012	62,825	79,895	19,554	146,264	
12/11/2012	62,866	79,979	19,800	148,104	
12/18/2012	62,908	80,064	20,061	150,056	
12/26/2012	62,956	80,160	20,061	150,056	
1/2/2013	62,998	80,244	20,230	151,320	
1/8/2013	63,033	80,318	20,282	151,709	

Table 9. Source Control Operations Data
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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
1/15/2013	63,065	80,394	20,337	152,121	
1/22/2013	63,104	80,478	20,337	152,121	
1/29/2013	63,148	80,564	20,337	152,121	
2/5/2013	63,184	80,646	20,337	152,121	
2/12/2013	63,231	80,736	20,337	152,121	
2/19/2013	63,268	80,815	20,337	152,121	
2/26/2013	63,309	80,897	20,337	152,121	
3/5/2013	63,347	80,976	20,337	152,121	
3/12/2013	63,389	81,059	20,337	152,121	
3/19/2013	63,431	81,143	20,337	152,121	
3/26/2013	63,473	81,228	20,337	152,121	
4/2/2013	63,511	81,311	20,351	152,225	
4/9/2013	63,556	81,395	20,422	152,757	
4/16/2013	63,594	81,479	20,483	153,213	
4/23/2013	63,633	81,569	20,538	153,624	
4/30/2013	63,666	81,647	20,557	153,766	
5/7/2013	63,705	81,731	20,569	153,856	
5/14/2013	63,744	81,815	20,578	153,923	
5/21/2013	63,784	81,898	20,601	154,095	
5/28/2013	63,818	81,980	20,624	154,268	
6/4/2013	63,861	82,067	20,665	154,574	
6/11/2013	63,901	82,149	20,674	154,642	
6/18/2013	63,942	82,233	20,678	154,671	
6/25/2013	63,987	82,320	20,687	154,739	
7/2/2013	64,028	82,405	20,695	154,799	
7/9/2013	64,067	82,485	20,695	154,799	
7/16/2013	64,125	82,569	20,695	154,799	
7/23/2013	64,182	82,653	20,685	154,724	
7/30/2013	64,225	82,738	20,695	154,799	
8/6/2013	64,268	82,823	20,699	154,829	
8/13/2013	64,309	82,907	20,699	154,829	
8/20/2013	64,349	82,989	20,703	154,858	
8/27/2013	64,393	83,077	20,703	154,858	
9/4/2013	64,470	83,159	20,771	155,367	
9/10/2013	64,509	83,241	20,749	155,203	
9/17/2013	64,553	83,327	20,765	155,322	
9/24/2013	64,593	83,409	20,786	155,479	
10/1/2013	64,636	83,495	20,901	156,339	
10/8/2013	64,677	83,578	20,954	156,736	
10/15/2013	64,717	83,661	20,976	156,900	
10/22/2013	64,762	83,749	20,987	156,983	
10/29/2013	64,819	83,831	20,997	157,058	
11/5/2013	64,860	83,914	21,034	157,334	
11/12/2013	64,890	83,998	21,089	157,746	
11/26/2013	64,970	84,160	21,230	158,800	
12/3/2013	65,012	84,250	21,272	159,115	
12/10/2013	65,051	84,334	21,297	159,302	
12/17/2013	65,096	84,422	21,316	159,444	
12/24/2013	65,141	84,510	21,335	159,586	
12/31/2013	65,243	84,585	21,430	160,296	
1/8/2014	65,289	84,672	21,430	160,296	
1/14/2014	65,328	84,750	21,430	160,296	
1/21/2014	65,368	84,833	21,576	161,388	
1/28/2014	35,048	84,916	21,821	163,221	
2/4/2014	65,449	85,000	21,623	161,740	
2/11/2014	65,478	85,084	21,777	162,892	
2/18/2014	65,515	85,164	21,899	163,807	
2/25/2014	65,555	85,212	22,109	165,375	
3/4/2014	65,598	85,300	22,119	165,450	
3/11/2014	65,640	85,380	22,319	166,946	
3/18/2014	65,663	85,465	22,465	168,038	
3/25/2014	65,693	85,549	22,493	168,248	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
4/1/2014	65,718	85,630	22,516	168,420	
4/8/2014	65,742	85,714	22,528	168,509	
4/15/2014	65,769	85,800	22,539	168,592	
4/22/2014	65,787	85,881	22,551	168,681	
4/29/2014	65,803	85,966	22,565	168,786	
5/6/2014	65,826	86,049	22,582	168,913	
5/20/2014	65,880	86,218	22,719	169,938	
6/3/2014	65,974	86,391	22,738	170,080	
6/10/2014	66,012	86,474	22,739	170,088	
6/17/2014	66,052	86,556	22,751	170,177	
6/24/2014	66,092	86,638	22,753	170,192	
7/1/2014	66,133	86,723	22,754	170,200	
7/8/2014	66,174	86,806	22,755	170,207	
7/16/2014	66,224	86,904	22,755	170,207	
7/22/2014	66,257	86,973	22,755	170,207	
7/29/2014	66,299	87,059	22,763	170,267	
8/5/2014	66,340	87,141	22,763	170,267	
8/12/2014	66,382	87,225	22,764	170,275	
8/19/2014	66,464	87,313	22,780	170,394	
8/26/2014	66,507	87,393	22,781	170,402	
9/2/2014	66,591	87,480	22,789	170,462	
9/9/2014	66,547	87,562	22,789	170,462	
9/16/2014	66,591	87,649	22,789	170,462	
9/23/2014	66,630	87,730	22,795	170,507	
9/30/2014	66,669	87,813	22,802	170,560	
10/7/2014	66,713	87,901	22,803	170,566	
10/14/2014	66,749	87,984	22,819	170,686	
10/21/2014	66,789	88,068	22,855	170,955	
10/28/2014	66,830	88,150	22,988	171,950	
11/4/2014	66,892	88,236	23,132	173,027	
11/18/2014	66,974	88,403	23,218	173,671	
11/25/2014	67,016	88,487	23,278	174,119	
12/2/2014	67,016	88,571	23,446	175,376	
12/9/2014	67,093	88,655	23,484	175,660	
12/16/2014	67,129	88,728	23,867	178,525	
12/23/2014	67,206	88,814	23,731	177,508	
12/30/2014	67,247	88,899	23,850	178,398	
1/6/2015	67,291	88,987	23,987	179,423	
1/13/2015	67,329	89,065	24,049	179,889	
1/20/2015	67,370	89,149	24,120	180,418	
1/27/2015	67,485	89,234	24,189	180,934	
2/3/2015	67,517	89,317	24,226	181,210	
2/10/2015	67,557	89,400	24,346	182,108	
2/17/2015	67,598	89,485	24,398	182,497	
2/24/2015	67,637	89,567	24,398	182,497	
3/3/2015	67,667	89,650	24,398	182,497	
3/10/2015	67,717	89,733	24,398	182,497	
3/17/2015	67,758	89,824	24,399	182,505	
3/24/2015	67,790	89,904	24,402	182,527	
3/31/2015	67,825	89,986	24,415	182,624	
4/7/2015	67,861	90,069	24,541	183,567	
4/14/2015	67,897	90,154	25,469	190,508	
4/21/2015	67,936	90,239	24,480	183,110	
4/28/2015	67,975	90,323	24,500	183,260	
5/5/2015	68,014	90,407	24,500	183,260	
5/12/2015	68,054	90,491	24,510	183,335	
5/19/2015	68,095	90,576	24,512	183,350	
5/26/2015	68,134	90,658	24,512	183,350	
6/2/2015	68,170	90,744	24,513	183,357	
6/9/2015	68,209	90,826	24,514	183,365	
6/16/2015	68,250	90,909	24,515	183,372	
6/23/2015	68,377	90,995	24,519	183,402	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
6/30/2015	68,450	91,076	24,519	183,402	
7/7/2015	68,513	91,162	24,519	183,402	
7/14/2015	68,268	91,247	24,519	183,402	
7/21/2015	68,589	91,329	24,519	183,402	
7/28/2015	68,666	91,413	24,520	183,410	
8/11/2015	68,831	91,586	24,520	183,410	
8/18/2015	68,893	91,666	24,532	183,499	
8/25/2015	68,941	91,749	24,533	183,507	
9/1/2015	69,033	91,832	24,544	183,589	
9/8/2015	69,074	91,918	24,599	184,001	
9/15/2015	69,145	91,997	24,631	184,240	
9/22/2015	69,199	92,086	24,667	184,509	
9/29/2015	69,283	92,166	24,623	184,180	
10/6/2015	69,344	92,253	24,625	184,195	
10/13/2015	69,395	92,340	24,643	184,330	
10/20/2015	69,395	92,418	24,647	184,360	
10/27/2015	69,466	92,502	24,659	184,449	
11/3/2015	69,533	92,588	24,814	185,609	
11/10/2015	69,553	92,672	24,924	186,432	
11/17/2015	69,621	92,755	25,273	189,042	
11/24/2015	69,674	92,839	25,323	189,416	
12/1/2015	69,694	92,925	25,370	189,768	
12/8/2015	69,759	93,010	25,526	190,934	
12/15/2015	69,809	93,093	25,890	193,657	
12/22/2015	69,835	93,175	26,123	195,400	
12/29/2015	69,871	93,259	26,260	196,425	
12/30/2015	69,882	93,290	26,260	196,425	
1/5/2016	69,879	93,344	26,260	196,425	
1/12/2016	69,925	93,430	26,260	196,425	
1/19/2016	69,957	93,518	26,289	196,642	
1/26/2016	69,957	93,596	26,483	198,093	
2/2/2016	70,020	93,680	26,574	198,774	
2/9/2016	70,085	93,760	26,623	199,140	
2/16/2016	70,114	93,844	26,772	200,255	
2/23/2016	70,155	93,929	26,914	201,317	
3/1/2016	70,178	94,013	26,952	201,601	
3/8/2016	70,221	94,096	27,040	202,259	
3/15/2016	70,278	94,179	27,220	203,606	
3/21/2016	70,312	94,262	27,225	203,643	
3/29/2016	70,363	94,346	27,300	204,204	
4/5/2016	70,407	94,430	27,322	204,369	
4/12/2016	70,408	94,515	27,336	204,473	
4/19/2016	70,496	94,599	27,351	204,585	
4/25/2016	70,533	94,681	27,406	204,997	
5/3/2016	70,607	94,765	27,431	205,184	
5/10/2016	70,657	94,852	27,437	205,229	
5/17/2016	70,699	94,888	27,438	205,236	
5/24/2016	70,702	94,896	27,441	205,259	
5/31/2016	70,702	94,986	27,444	205,281	
6/7/2016	70,710	94,921	27,444	205,281	
6/14/2016	70,728	94,949	27,462	205,416	
6/21/2016	70,741	94,987	27,490	205,625	
6/28/2016	70,754	95,023	27,566	206,194	
7/5/2016	70,754	95,062	27,581	206,306	
7/12/2016	70,759	95,077	27,587	206,351	
7/19/2019	70,761	95,080	27,588	206,358	
7/26/2016	70,773	95,102	27,590	206,373	
8/2/2016	70,775	95,105	27,591	206,381	
8/9/2016	70,775	95,105	27,591	206,381	
8/16/2016	70,775	95,105	27,591	206,381	
8/23/2016	70,775	95,105	27,591	206,381	
8/30/2016	70,775	95,105	27,591	206,381	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
9/6/2016	70,775	95,105	27,603	206,470	
9/12/2016	70,775	95,105	27,603	206,470	
9/20/2016	70,775	95,105	27,607	206,500	
9/27/2016	70,775	95,105	27,608	206,508	
10/4/2016	70,775	95,105	27,608	206,508	
10/11/2016	70,775	95,105	27,620	206,598	
10/18/2016	70,775	95,105	27,730	207,420	
11/1/2016	70,775	95,105	27,821	208,101	
11/2/2016	70,775	95,105	27,821	208,101	
11/3/2016	--	--	27,837	208,221	
11/9/2016	70,791	95,133	27,837	208,221	
11/15/2016	70,805	95,168	27,931	208,924	
11/22/2016	70,816	95,213	27,979	209,283	
11/29/2016	70,836	95,253	28,056	209,859	
12/6/2016	70,828	95,294	28,393	212,380	
12/13/2016	70,836	95,339	28,439	212,724	
12/20/2016	70,848	95,379	28,470	212,956	
12/27/2016	70,859	95,422	28,568	213,689	
12/31/2016	70,865	95,440	28,568	213,689	
Total Hours	**27,855**	**46,246**			
Avg hrs./day	**7.00**	**11.62**			

Table 10. Soil Gas and Landfill Gas Removal Volumes
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Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		10/25/2005															
		11/2/2005															
		11/15/2005															
		11/22/2005		43,010									49,194				
		11/29/2005		43,069	59	120	424,800	424,800	70	247,800	247,800		49,267	73	94	411,720	411,720
		12/5/2005		43,069									49,267				
		12/13/2005		43,147									49,434				
		12/20/2005		43,190									49,519				
		12/27/2005		43,217	148	120	1,065,600	1,490,400	70	621,600	869,400		49,603	336	94	1,895,040	2,306,760
		1/3/2006		43,259									49,688				
1/13/2006		1/10/2006		43,295									49,722				
		1/17/2006		43,325									49,816				
		1/24/2006		43,384									49,940				
		1/31/2006		43,431	214	120	1,540,800	3,031,200	70	898,800	1,768,200		50,036	433	94	2,442,120	4,748,880
		2/7/2006		43,465									50,099				
		2/14/2006		43,506									50,184				
		2/21/2006		43,539									50,268				
3/1/2006		2/28/2006		43,587	156	87	814,320	3,845,520	53	496,080	2,264,280		50,351	315	85	1,606,500	6,355,380
		3/7/2006		43,628									50,435				
		3/14/2006		43,670									50,519				
		3/21/2006		43,710									50,603				
4/3/2006		3/28/2006		43,752	165	88	871,200	4,716,720	59	584,100	2,848,380		50,687	336	77	1,552,320	7,907,700
		4/4/2006		43,782									50,768				
		4/11/2006		43,845									50,854				
		4/18/2006		43,881									50,938				
		4/25/2006		43,924									51,021				
5/1/2006		5/2/2006		43,977	225	82	1,107,000	5,823,720	46	621,000	3,469,380		51,106	419	81	2,036,340	9,944,040
		5/9/2006		44,018									51,190				
		5/16/2006		44,057									51,274				
		5/23/2006		44,118									51,357				
6/5/2006		5/30/2006		44,166	189	83	941,220	6,764,940	54	612,360	4,081,740		51,442	335.5	65	1,308,450	11,252,490
		6/6/2006		44,214									51,526				
		6/13/2006		44,257									51,610				
		6/20/2006		44,309									51,693				
		6/27/2006		44,350									51,778				
		7/4/2006		44,375									51,862				
7/13/2006		7/11/2006		44,400	234	53	744,120	7,509,060	34	477,360	4,559,100		51,944	502.5	81	2,442,150	13,694,640
		7/18/2006		44,511									52,026				
		7/25/2006		44,577									52,113				
		8/1/2006		44,637									52,193				
		8/8/2006		44,700									52,278				
		8/15/2006		44,763									52,362				
8/18/2006	8/18/2006	8/22/2006	44,795	44,817	417	73	1,826,460	9,335,520	42	1,050,840	5,609,940	52,403	52,439	495	81	2,405,700	16,100,340
		8/29/2006		44,872									52,517				
		9/5/2006		44,943									52,614				
9/14/2006	9/14/2006	9/13/2006	45,028	45,014	197	62	732,840	10,068,360	40	472,800	6,082,740	52,727	52,710	271	87	1,414,620	17,514,960
		9/18/2006		45,068									52,782				
		9/26/2006		45,131									52,866				
		10/3/2006		45,195									52,952				
		10/10/2006		45,259									53,036				
10/19/2006		10/17/2006		45,324	310	63	1,171,800	11,240,160	42	781,200	6,863,940		53,122	412	93	2,298,960	19,813,920
		10/31/2006		45,447									53,288				
		11/7/2006		45,500									53,371				
		11/14/2006		45,563									53,455				
		11/21/2006		45,618									53,528				
		11/28/2006		45,680									53,612				
12/4/2006	12/4/2006	12/5/2006	45,739	45,746	422	75	1,899,000	13,139,160	51	1,291,320	8,155,260	53,689	53,700	578	93	3,225,240	23,039,160
		12/12/2006		45,802									53,776				
		12/19/2006		45,854									53,844				
		12/26/2006		45,921									53,933				
		1/1/2007		45,966									54,000				
		1/2/2007		45,982									54,016				
1/15/2007		1/9/2007		46,039	293	49	861,420	14,000,580	33	580,140	8,735,400		54,094	394	90	2,127,600	25,166,760
		1/16/2007		46,096									54,176				
		1/23/2007		46,156									54,257				
		1/30/2007		46,223									54,346				
		2/7/2007		46,290									54,437				
		2/13/2007		46,344									54,509				
2/23/2007		2/20/2007		46,397	358	86	1,847,280	15,847,860	57	1,224,360	9,959,760		54,593	499	88	2,634,720	27,801,480
		2/27/2007		46,460									54,676				
		3/6/2007		46,525									54,763				
		3/13/2007		46,580									54,841				
3/23/2007		3/20/2007		46,643	246	86	1,269,360	17,117,220	65	959,400	10,919,160		54,926	333	84	1,678,320	29,479,800
		3/27/2007		46,707									55,011				
		4/3/2007		46,762									55,096				
		4/10/2007		46,813									55,178				
		4/17/2007		46,876									55,262				
		4/24/2007		46,938									55,345				
5/1/2007		5/1/2007		47,001	358	58	1,245,840	18,363,060	40	859,200	11,778,360		55,429	503	86	2,595,480	32,075,280
		5/8/2007		47,064									55,514				
5/17/2007		5/15/2007		47,127	126	56	423,360	18,786,420	38	287,280	12,065,640		55,597	168	86	866,880	32,942,160
		5/22/2007		47,190									55,683				
		5/29/2007		47,253									55,766				
		6/5/2007		47,377									55,850				
6/14/2007		6/12/2007		47,440	313	67	1,258,260	20,044,680	44	826,320	12,891,960		55,932	335	84	1,688,400	34,630,560

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Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		6/19/2007		47,440									56,102				
		6/26/2007		47,495									56,185				
		7/3/2007		47,588									56,185				
		7/10/2007		47,620									56,269				
7/19/2007		7/17/2007		47,684									56,354	422	80	2,025,600	36,656,160
		7/24/2007		--									--				
		7/31/2007		47,811									56,524				
8/8/2007		8/7/2007		47,873	433	46	1,195,080	21,239,760	30	779,400	13,671,360		56,606	252	87	1,315,440	37,971,600
		8/14/2007		47,946									56,703				
		8/21/2007		47,998									56,773				
		8/28/2007		48,061									56,858				
9/7/2007		9/4/2007		48,126	253	42	637,560	21,877,320	29	440,220	14,111,580		56,944	338	86	1,744,080	39,715,680
		9/11/2007		48,186									57,025				
		9/18/2007		48,249									57,109				
		9/24/2007		48,311									57,193				
		10/2/2007		48,372									57,278				
		10/9/2007		48,434									57,360				
10/26/2007		10/24/2007		48,566	440	44	1,161,600	23,038,920	30	792,000	14,903,580		57,541	597	94	3,367,080	43,082,760
		10/30/2007		48,614									57,613				
		11/7/2007		48,676									57,698				
		11/13/2007		48,739									57,782				
11/26/2007		11/21/2007		48,812	246	45	664,200	23,703,120	36	531,360	15,434,940		57,879	338	92	1,865,760	44,948,520
		11/27/2007		48,864									57,949				
		12/4/2007		48,927									58,033				
12/12/2007		12/11/2007		48,995	183	85	933,300	24,636,420	71	779,580	16,214,520		58,124	245	91	1,337,700	46,286,220
		12/18/2007		49,052									58,202				
		12/24/2007		49,110									58,358				
		12/31/2007		49,169									58,359				
		1/8/2008		49,243									58,510				
		1/15/2008		49,303									58,544				
		1/22/2008		49,359									58,622				
		1/29/2008		49,408									58,705				
1/30/2008		1/30/2008		49,425	430	47	1,212,600	25,849,020	43	1,109,400	17,323,920		58,726	182	91	993,720	47,279,940
		2/5/2008		49,469									58,790				
		2/13/2008		49,541									58,886				
		2/19/2008		49,595									58,958				
2/27/2008		2/25/2008		49,657	232	59	821,280	26,670,300	35	487,200	17,811,120		59,041	251	91	1,370,460	48,650,400
		3/4/2008		49,720									59,126				
		3/11/2008		49,781									59,208				
3/19/2008		3/18/2008		49,844	187	39	437,580	27,107,880	36	403,920	18,215,040		59,292	251	81	1,219,860	49,870,260
		3/25/2008		49,907									59,376				
		4/1/2008		49,970									59,461				
		4/8/2008		50,035									59,547				
		4/15/2008		50,096									59,629				
4/22/2008		4/22/2008		50,158	314	121	2,279,640	29,387,520	102	1,921,680	20,136,720		59,712	251	162	2,439,720	52,309,980
		4/23/2008		50,173									59,730				
		4/29/2008		50,221									59,796				
		5/6/2008		50,280									59,879				
		5/13/2008		50,344									59,965				
		5/20/2008		50,407									60,048				
5/29/2008		5/27/2008		50,470	312	51	954,720	30,342,240	43	804,960	20,941,680		60,133	254	81	1,234,440	53,544,420
		6/3/2008		50,529									60,217				
		6/10/2008		50,591									60,301				
		6/17/2008		50,654									60,385				
6/30/2008		6/24/2008		50,717	247		0	30,342,240		0	20,941,680		60,469	252		0	53,544,420
		7/1/2008		50,780									60,553				
		7/8/2008		50,840									60,639				
		7/15/2008		50,895									60,716				
7/22/2008		7/23/2008		50,964	247	46	681,720	31,023,960	31	459,420	21,401,100		60,809	256	83	1,274,880	54,819,300
		7/29/2008		51,021									60,883				
		8/5/2008		51,084									60,968				
		8/12/2008		51,140									61,049				
		8/19/2008		51,201									61,134				
8/26/2008		8/27/2008		51,275	311	48	895,680	31,919,640	26	485,160	21,886,260		61,232	264	85	1,346,400	56,165,700
		9/2/2008		51,326									61,301				
		9/9/2008		51,389									61,385				
		9/16/2008		51,450									61,469				
9/24/2008		9/23/2008		51,506	231	49	679,140	32,598,780	28	388,080	22,274,340		61,553	252	90	1,360,800	57,526,500
		9/29/2008		51,568									61,637				
		10/8/2008		51,640									61,733				
		10/14/2008		51,694									61,805				
		10/21/2008		51,757									61,892				
10/29/2008		10/28/2008		51,820	314	37	697,080	33,295,860	29	546,360	22,820,700		61,973	240	87	1,252,800	58,779,300
		11/4/2008		51,884									62,059				
		11/11/2008		51,945									62,141				
		11/18/2008		52,001									62,227				
11/25/2008		11/25/2008		52,062	242	36	522,720	33,818,580	25	363,000	23,183,700		62,309	250	91	1,365,000	60,144,300
		12/2/2008		--									--				
		12/9/2008		52,179									62,478				
		12/16/2008		52,235									62,563				
		12/23/2008		52,252									62,648				
12/30/2008		12/30/2008		52,302	240	30	432,000	34,250,580	22	316,800	23,500,500		62,730	252	91	1,375,920	61,520,220
		12/31/2008		52,316									62,748				
		1/13/2009		52,431									62,902				
		1/21/2009		52,480									62,995				

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								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
1/28/2009		1/27/2009		52,523	271	31	504,060	34,754,640	24	390,240	23,890,740		63,068	420	86	2,167,200	63,687,420
		2/4/2009		52,593									63,162				
		2/10/2009		52,657									63,243				
		2/17/2009		52,713									63,323				
2/24/2009		2/24/2009		52,769	246	37	546,120	35,300,760	32	472,320	24,363,060		63,402	334	86	1,723,440	65,410,860
		3/3/2009		52,829									63,487				
		3/10/2009		52,891									63,569				
		3/17/2009		52,957									63,657				
3/23/2009		3/23/2009		53,015	246	38	560,880	35,861,640	30	442,800	24,805,860		63,737	335	87	1,748,700	67,159,560
		3/31/2009		53,078									63,822				
		4/7/2009		53,141									63,906				
		4/14/2009		53,208									63,989				
4/20/2009		4/21/2009		53,223	208	37	461,760	36,323,400	24	299,520	25,105,380		64,074	337	86	1,738,920	68,898,480
		4/28/2009		53,318									64,158				
		5/5/2009		53,380									64,244				
		5/12/2009		53,440									64,325				
5/18/2009		5/18/2009		53,499	276	36	596,160	36,919,560	24	397,440	25,502,820		64,325	251	84	1,265,040	70,163,520
		5/19/2009		53,502									64,408				
		5/26/2009		53,563									64,490				
		6/3/2009		53,635									64,586				
		6/11/2009		53,689									64,659				
		6/16/2009		53,754									64,744				
		6/23/2009		53,814									64,826				
6/25/2009		6/25/2009		53,837	338	38	770,640	37,690,200	22	446,160	25,948,980		64,854	529	84	2,666,160	72,829,680
		6/30/2009		53,879									64,913				
		7/7/2009		54,002									65,080				
		7/14/2009		53,937									64,994				
7/16/2009		7/16/2009		54,023	186	41	457,560	38,147,760	26	290,160	26,239,140		65,107	253	83	1,259,940	74,089,620
		7/21/2009		54,063									65,162				
		7/28/2009		54,126									65,246				
		8/4/2009		54,189									65,330				
		8/11/2009		54,254									65,416				
		8/18/2009		54,314									65,497				
8/26/2009		8/25/2009		54,377	354	35	743,400	38,891,160	22	467,280	26,706,420		65,582	475	82	2,337,000	76,426,620
		9/1/2009		54,440									65,666				
		9/8/2009		54,503									65,750				
		9/15/2009		54,565									65,833				
9/22/2009		9/22/2009		54,629	252	37	559,440	39,450,600	31	468,720	27,175,140		65,918	336	67	1,350,720	77,777,340
		9/29/2009		54,690									66,002				
		10/6/2009		54,753									66,085				
		10/13/2009		54,816									66,170				
		10/20/2009		54,880									66,254				
		10/27/2009		54,943									66,339				
		11/3/2009		55,008									66,425				
		11/10/2009		55,069									66,507				
		11/17/2009		55,131									66,591				
11/23/2009		11/24/2009		55,192	563	38	1,283,640	40,734,240	22	743,160	27,918,300		66,673	755	67	3,035,100	80,812,440
		12/1/2009		55,256									66,759				
		12/8/2009															
		12/15/2009		55,372									66,927				
		12/22/2009		55,432									67,010				
12/28/2009		12/29/2009		55,487	356	38	811,680	41,545,920	23	491,280	28,409,580		67,095	504	82	2,479,680	83,292,120
		1/5/2010		55,549									67,178				
		1/12/2010		55,616									67,266				
		1/19/2010		55,676									67,348				
		1/26/2010		55,739									67,432				
		2/2/2010		55,800									67,515				
2/10/2010		2/9/2010		55,849	362	37	803,640	42,349,560	23	499,560	28,909,140		67,601	506	49	1,487,640	84,779,760
		2/16/2010		55,909									67,683				
		2/23/2010		55,963									67,767				
		3/2/2010		56,008									67,851				
		3/9/2010		50,071									67,935				
		3/16/2010		56,012									68,018				
3/26/2010		3/23/2010		56,182	333	39	779,220	43,128,780	3	59,940	28,969,080		68,101	500	53	1,590,000	86,369,760
		3/30/2010		56,243									68,188				
		4/7/2010		56,316									68,287				
		4/14/2010		56,391									68,364				
		4/21/2010		56,459									68,440				
		4/27/2010		56,575									68,522				
		5/4/2010		56,649									68,606				
		5/11/2010		56,730									68,689				
5/21/2010		5/18/2010		56,874	692	6	249,120	43,377,900	1	41,520	29,010,600		68,776	675	62	2,511,000	88,880,760
		5/25/2010		56,914									68,826				
		6/1/2010		56,969									68,909				
		6/8/2010		57,035									68,997				
		6/15/2010		57,073									69,078				
		6/22/2010		57,115									69,162				
6/28/2010		6/28/2010		57,156	282	36	609,120	43,987,020	17	287,640	29,298,240		69,246	470	21	592,200	89,472,960
		7/6/2010		57,197									69,331				
		7/13/2010		57,235									69,323				
		7/20/2010		57,279									69,497				
		7/27/2010		57,320									69,581				
		8/3/2010		57,362									69,665				
8/11/2010		8/11/2010		57,410	254	39	594,360	44,581,380	24	365,760	29,664,000		69,761	515	28	865,200	90,338,160
		8/17/2010		57,441									69,835				

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								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		8/25/2010		57,493									69,940				
		8/31/2010		57,520									70,001				
		9/7/2010		57,562									70,085				
		9/15/2010		57,610									70,185				
9/23/2010		9/21/2010		57,643	233	35	489,300	45,070,680	26	363,480	30,027,480		70,253	492	72	2,125,440	92,463,600
		9/28/2010		57,684									70,336				
		10/5/2010		57,720									70,422				
		10/12/2010		57,759									70,506				
		10/19/2010		57,798									70,588				
		10/26/2010		57,836									70,673				
		11/2/2010		57,878									70,757				
11/18/2010		11/9/2010		57,920	277	36	598,320	45,669,000	34	565,080	30,592,560		70,845	592	69	2,450,880	94,914,480
		11/16/2010															
		12/8/2010		58,059									71,178				
12/22/2010		12/14/2010		58,094	174	36	375,840	46,044,840	41	428,040	31,020,600		71,249	404	81	1,963,440	96,877,920
		1/4/2011		58,192									71,500				
		1/11/2011		58,228									71,585				
		1/18/2011		58,271									71,670				
		1/25/2011		58,311									71,756				
		2/1/2011		58,350									71,837				
2/9/2011		2/8/2011		58,386	292	65	1,138,800	47,183,640	47.41	830,623	31,851,223		71,920	671	102	1,787,040	98,664,960
		2/15/2011		58,419									72,004				
		2/22/2011		58,457									72,091				
		3/1/2011		58,487									72,173				
3/10/2011		3/8/2011		58,525	139	55	458,700	47,642,340	42.9	357,786	32,209,009		72,259	339	92	767,280	99,432,240
		3/15/2011		58,555									72,340				
		3/22/2011		58,593									72,422				
		3/29/2011		58,632									72,508				
		4/5/2011		58,690									72,593				
		4/12/2011		58,730									72,674				
		4/19/2011		58,772									72,760				
		4/26/2011		58,814									72,844				
5/4/2011		5/3/2011		58,855	330	56	1,108,800	48,751,140	50.736	1,004,573	33,213,582		72,926	667	86	1,702,800	101,135,040
		5/10/2011		58,898									73,012				
		5/17/2011		58,939									73,096				
		5/24/2011		58,978									73,180				
		5/31/2011		58,021									73,265				
		6/7/2011		59,061									73,346				
6/17/2011		6/15/2011		59,111	—	—	—	—	—	—	—		73,446	—	—	—	—
		6/22/2011		59,145									73,516				
		6/28/2011		59,186									73,591				
		7/5/2011		59,228									73,683				
		7/12/2011		59,262									73,767				
		7/19/2011		59,276									73,851				
		7/26/2011		59,282									73,934				
8/4/2011		8/2/2011		59,288	433	57	1,480,860	50,232,000	53.124	1,380,162	34,593,744		74,019	1093	84	2,182,320	103,317,360
		8/9/2011		59,328									74,103				
		8/16/2011		59,368									74,184				
		8/23/2011		59,407									74,267				
		8/31/2011		59,474									74,365				
		9/5/2011		59,528									74,436				
		9/13/2011		59,571									74,520				
9/20/2011		9/22/2011		59,680	392	67	1,575,840	51,807,840	42.344	995,931	35,589,674		74,631	612	99	2,328,480	105,645,840
		9/27/2011		59,743									74,688				
		10/4/2011		59,818									74,772				
		10/11/2011		59,898									74,855				
		10/18/2011		59,957									74,940				
		10/25/2011		60,016									75,023				
11/3/2011		11/1/2011		60,127	447	54	1,448,280	53,256,120	32.94	883,451	36,473,125		75,108	477	62	1,662,840	107,308,680
		11/8/2011		60,256									75,193				
		11/16/2011		60,347									75,290				
		11/22/2011		60,382									75,361				
		12/6/2011		60,460									75,532				
		12/13/2011		60,497									75,614				
		12/20/2011		60,538									75,699				
12/29/2011		12/27/2011		60,562	435	54	1,409,400	54,665,520	39.744	1,037,318	37,510,444		75,787	679	78	2,035,800	109,344,480
		1/3/2012		60,599									75,865				
		1/10/2012		60,659									75,949				
		1/17/2012															
		1/24/2012		60,740									76,117				
		1/31/2012		60,781									76,201				
2/7/2012		2/7/2012		60,823	261	55	861,300	55,526,820	37	579,420	38,089,864		76,286	499	51	798,660	110,143,140
		2/14/2012		60,868									76,373				
		2/21/2012		60,906									76,453				
		2/28/2012		60,951									76,541				
		3/6/2012		60,990									76,621				
		3/13/2012		61,032									76,706				
		3/20/2012		61,073									76,789				
3/28/2012		3/27/2012		61,115	292	51	893,520	56,420,340	42	735,840	38,825,704		76,873	587	51	893,520	111,036,660
		4/3/2012		61,157									76,957				
		4/10/2012		61,234									77,040				
		4/17/2012		61,295									77,124				
		4/24/2012		61,338									77,209				
		5/1/2012		61,380									77,293				
5/9/2012		5/8/2012		61,439	324	46	894,240	57,314,580	29	563,760	39,389,464		77,376	503	51	991,440	112,028,100

Table 10. Soil Gas and Landfill Gas Removal Volumes
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Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		5/15/2012		61,534									77,462				
		5/22/2012		61,611									77,545				
		5/29/2012		61,672									77,628				
		6/5/2012		61,714									77,712				
		6/12/2012		61,756									77,796				
		6/19/2012		61,823									77,880				
6/27/2012		6/26/2012		61,864	425	81	2,065,500	59,380,080	75	1,912,500	41,301,964		77,964	588	37	943,500	112,971,600
		7/3/2012		61,907									78,046				
		7/10/2012		61,948									78,133				
		7/18/2012		61,996									78,229				
		7/24/2012		62,031									78,300				
		7/31/2012		62,073									78,385				
		8/7/2012		62,117									78,471				
8/9/2012		8/14/2012		62,157	293	74	1,300,920	60,681,000	65	1,142,700	42,444,664		78,553	589	52	914,160	113,885,760
		8/21/2012		62,201									78,640				
		8/28/2012		62,240									78,720				
		9/4/2012		62,284									78,807				
		9/11/2012		62,330									78,899				
		9/18/2012		62,366									78,973				
9/26/2012		9/25/2012		62,407	250	40	600,000	61,281,000	35	525,000	42,969,664		79,056	503	54	810,000	114,695,760
		10/2/2012		62,449									79,139				
		10/9/2012		62,491									79,225				
		10/16/2012		62,534									79,310				
		10/22/2012		62,575									79,393				
		11/6/2012		62,658									79,561				
11/6/2012		11/13/2012		62,703	296	45	799,200	62,080,200	43	763,680	43,733,344		79,649	593	69	1,225,440	115,921,200
		11/20/2012		62,742									79,728				
		11/27/2012		62,781									79,814				
		12/4/2012		62,825									79,895				
		12/11/2012		62,866									79,979				
		12/18/2012		62,908									80,064				
12/20/2012		12/26/2012		62,956	253	84	1,275,120	63,355,320	71	1,077,780	44,811,124		80,160	346	67	1,017,060	116,938,260
		1/2/2013		62,998									80,244				
		1/8/2013		63,033									80,318				
		1/15/2013		63,065									80,394				
		1/22/2013		63,104									80,478				
1/30/2013		1/29/2013		63,148	192	21	241,920	63,597,240	13.44	154,829	44,965,952		80,564	404	14	161,280	117,099,540
		2/5/2013		63,184									80,646				
		2/12/2013		63,231									80,736				
		2/19/2013		63,268									80,815				
		2/26/2013		63,309									80,897				
		3/5/2013		63,347									80,976				
		3/12/2013		63,389									81,059				
		3/19/2013		63,431									81,143				
3/21/2013		3/26/2013		63,473	325	26	507,000	64,104,240	15.08	294,060	45,260,012		81,228	664	17	331,500	117,431,040
		4/2/2013		63,511									81,311				
		4/9/2013		63,556									81,395				
		4/16/2013		63,594									81,479				
		4/23/2013		63,633									81,569				
4/30/2013		4/30/2013		63,666	193	24	277,920	64,382,160	14.592	168,975	45,428,988		81,647	419	14	162,120	117,593,160
		5/7/2013		63,705									81,731				
		5/14/2013		63,744									81,815				
		5/21/2013		63,784									81,898				
		5/28/2013		63,818									81,980				
		6/4/2013		63,861									82,067				
		6/11/2013		63,901									82,149				
6/18/2013		6/18/2013		63,942	276	27	447,120	64,829,280	19.44	321,926	45,750,914		82,233	586	17	281,520	117,874,680
		6/25/2013		63,987									82,320				
		7/2/2013		64,028									82,405				
		7/9/2013		64,067									82,485				
		7/16/2013		64,125									82,569				
		7/23/2013		64,182									82,653				
		7/30/2013		64,225									82,738				
8/1/2013		8/6/2013		64,268	326	15	293,400	65,122,680	9.18	179,561	45,930,475		82,823	590	15	293,400	118,168,080
		8/13/2013		64,309									82,907				
		8/20/2013		64,349									82,989				
		8/27/2013		64,393									83,077				
		9/4/2013		64,470									83,159				
		9/10/2013		64,509									83,241				
		9/17/2013		64,553									83,327				
9/19/2013		9/24/2013		64,593	325	20	390,000	65,512,680	15.92	310,440	46,240,915		83,409	586	15	292,500	118,460,580
		10/1/2013		64,636									83,495				
		10/8/2013		64,677									83,578				
		10/15/2013		64,717									83,661				
		10/22/2013		64,762									83,749				
10/29/2013		10/29/2013		64,819	226	34	461,040	65,973,720	18.836	255,416	46,496,331		83,831	422	9	122,040	118,582,620
		11/5/2013		64,860									83,914				
		11/12/2013		64,890									83,998				
		11/26/2013		64,970									84,160				
		12/3/2013		65,012									84,250				
		12/10/2013		65,051									84,334				
		12/17/2013		65,096									84,422				
		12/24/2013		65,141									84,510				
12/17/2013		12/31/2013		65,243	424	39	992,160	66,965,880	23.244	591,327	47,087,658		84,585	754	12	305,280	118,887,900
		1/8/2014		65,289									84,672				

Table 10. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		1/14/2014		65,328									84,750				
		1/21/2014		65,368									84,833				
		1/28/2014		35,048									84,916				
		2/4/2014		65,449									85,000				
2/13/2014		2/11/2014		65,478	235	27	380,700	67,346,580	16.1	226,897	47,314,556		85,084	499	11	155,100	119,043,000
		2/18/2014		65,515									85,164				
		2/25/2014		65,555									85,212				
		3/4/2014		65,598									85,300				
		3/11/2014		65,640									85,380				
		3/18/2014		65,663									85,465				
		3/25/2014		65,693									85,549				
		4/1/2014		65,718									85,630				
		4/8/2014		65,742									85,714				
		4/15/2014		65,769									85,800				
		4/22/2014		65,787									85,881				
		4/29/2014		65,803									85,966				
5/7/2014		5/6/2014		65,826	348	34	709,920	68,056,500	20.3	423,112	47,737,668		86,049	965	0	0	119,043,000
		5/20/2014		65,880									86,218				
		6/3/2014		65,974									86,391				
		6/10/2014		66,012									86,474				
6/18/2014		6/17/2014		66,052	226	14	189,840	68,246,340	8.3	113,145	47,850,813		86,556	507	0	0	119,043,000
		6/24/2014		66,092									86,638				
		7/1/2014		66,133									86,723				
		7/8/2014		66,174									86,806				
		7/16/2014		66,224									86,904				
		7/22/2014		66,257									86,973				
		7/29/2014		66,299									87,059				
8/5/2014		8/5/2014		66,340	288	30.1	520,128	68,766,468	17.9	309,996	48,160,809		87,141	585	0	0	119,043,000
		8/12/2014		66,382									87,225				
		8/19/2014		66,464									87,313				
		8/26/2014		66,507									87,393				
		9/2/2014		66,591									87,480				
		9/9/2014		66,547									87,562				
9/16/2014		9/16/2014		66,591	251	25.3	381,018	69,147,486	15.1	227,087	48,387,896		87,649	508	0	0	119,043,000
		9/23/2014		66,630									87,730				
		9/30/2014		66,669									87,813				
		10/7/2014		66,713									87,901				
		10/14/2014		66,749									87,984				
		10/21/2014		66,789									88,068				
10/29/2014		10/28/2014		66,830	239	23.4	335,556	69,483,042	13.9	199,991	48,587,887		88,150	501	0	0	119,043,000
		11/4/2014		66,892									88,236				
		11/18/2014		66,974									88,403				
		11/25/2014		67,016									88,487				
		12/2/2014		67,016									88,571				
		12/9/2014		67,093									88,655				
12/16/2014		12/16/2014		67,129	299	41	735,540	70,218,582	30.3	542,829	49,130,716		88,728	578	0	0	119,043,000
		12/23/2014		67,206									88,814				
		12/30/2014		67,247									88,899				
		1/6/2015		67,291									88,987				
		1/13/2015		67,329									89,065				
		1/20/2015		67,370									89,149				
		1/27/2015		67,485									89,234				
2/3/2015		2/3/2015		67,517	388	41.2	959,136	71,177,718	24.9	579,318	49,710,034		89,317	589	0	0	119,043,000
		2/10/2015		67,557									89,400				
		2/17/2015		67,598									89,485				
		2/24/2015		67,637									89,567				
		3/3/2015		67,667									89,650				
		3/10/2015		67,717									89,733				
3/18/2015		3/17/2015		67,758	241	45.5	657,930	71,835,648	24.7	356,598	50,066,632		89,824	507	21.4	650,988	119,693,988
		3/24/2015		67,790									89,904				
		3/31/2015		67,825									89,986				
		4/7/2015		67,861									90,069				
		4/14/2015		67,897									90,154				
		4/21/2015		67,936									90,239				
4/29/2015		4/28/2015		67,975	217	44	572,880	72,408,528	24.1	313,938	50,380,570		90,323	499	13.4	401,196	120,095,184
		5/5/2015		68,014									90,407				
		5/12/2015		68,054									90,491				
		5/19/2015		68,095									90,576				
		5/26/2015		68,134									90,658				
		6/2/2015		68,170									90,744				
		6/9/2015		68,209									90,826				
6/16/2015		6/16/2015		68,250	275	41.9	691,350	73,099,878	24.0	395,452	50,776,022		90,909	586	17.6	618,816	120,714,000
		6/23/2015		68,377									90,995				
		6/30/2015		68,450									91,076				
		7/7/2015		68,513									91,162				
		7/14/2015		68,268									91,247				
		7/21/2015		68,589									91,329				
		7/28/2015		68,666									91,413				
8/4/2015		8/11/2015		68,831	581	43.9	1,530,354	74,630,232	20.5	713,145	51,489,167		91,586	677	0	0	120,714,000
		8/18/2015		68,893									91,666				
		8/25/2015		68,941									91,749				
		9/1/2015		69,033									91,832				
		9/8/2015		69,074									91,918				
9/15/2015		9/15/2015		69,145	314	42.3	796,932	75,427,164	21.3	401,654	51,890,821		91,997	411	16.7	411,822	121,125,822
		9/22/2015		69,199									92,086				

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Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		9/29/2015		69,283									92,166				
		10/6/2015		69,344									92,253				
		10/13/2015		69,395									92,340				
		10/20/2015		69,395									92,418				
10/28/2015		10/27/2015		69,466	321	38.7	745,362	76,172,526	22.6	435,291	52,326,112		92,502	505	19.1	578,730	121,704,552
		11/3/2015		69,533									92,588				
		11/10/2015		69,553									92,672				
		11/17/2015		69,621									92,755				
		11/24/2015		69,674									92,839				
		12/1/2015		69,694									92,925				
12/10/2015		12/8/2015		69,759	293	40.4	710,232	76,882,758	25.5	448,867	52,774,979		93,010	508	5.3	161,544	121,866,096
		12/15/2015		69,809									93,093				
		12/22/2015		69,835									93,175				
		12/29/2015		69,871									93,259				
		12/30/2015		69,882									93,290				
		1/5/2016		69,879									93,344				
		1/12/2016		69,925									93,430				
		1/19/2016		69,957									93,518				
		1/26/2016		69,957									93,596				
2/3/2016		2/2/2016		70,020	261	0	0	76,882,758	0.0	0	52,774,979		93,680	670	0	0	121,866,096
		2/9/2016		70,085									93,760				
		2/16/2016		70,114									93,844				
		2/23/2016		70,155									93,929				
		3/1/2016		70,178									94,013				
		3/8/2016		70,221									94,096				
		3/15/2016		70,278									94,179				
3/23/2016		3/21/2016		70,312	292	0	0	76,882,758	0.0	0	52,774,979		94,262	582	0	0	121,866,096
		3/29/2016		70,363									94,346				
		4/5/2016		70,407									94,430				
		4/12/2016		70,408									94,515				
		4/19/2016		70,496									94,599				
		4/25/2016		70,533									94,681				
		5/3/2016		70,607									94,765				
5/12/2016		5/10/2016		70,657	345	50	1,035,000	77,917,758	22.2	459,540	53,234,519		94,852	590	18	637,200	122,503,296
		5/17/2016		70,699									94,888				
		5/24/2016		70,702									94,896				
		5/31/2016		70,702									94,986				
		6/7/2016		70,710									94,921				
		6/14/2016		70,728									94,949				
		6/21/2016		70,741									94,987				
		6/28/2016		70,754									95,023				
		7/5/2016		70,754									95,062				
		7/12/2016		70,759									95,077				
7/25/2016		7/19/2019		70,761	104	51	318,240	78,235,998	46.9	292,781	53,527,300		95,080	228	0	0	122,503,296
		7/26/2016		70,773									95,102				
		8/2/2016		70,775									95,105				
		8/9/2016		70,775									95,105				
		8/16/2016		70,775									95,105				
		8/23/2016		70,775									95,105				
		8/30/2016		70,775									95,105				
		9/6/2016		70,775									95,105				
		9/12/2016		70,775									95,105				
		9/20/2016		70,775									95,105				
		9/27/2016		70,775									95,105				
		10/4/2016		70,775									95,105				
		10/11/2016		70,775									95,105				
		10/18/2016		70,775									95,105				
		11/1/2016		70,775									95,105				
		11/2/2016		70,775									95,105				
		11/3/2016		--									--				
		11/9/2016		70,791									95,133				
11/18/2016		11/15/2016		70,805	44	50	132,000	78,367,998	50.7	133,848	53,661,148		95,168	88	33	174,240	122,677,536
		11/22/2016		70,816									95,213				
		11/29/2016		70,836									95,253				
		12/6/2016		70,828									95,294				
		12/13/2016		70,836									95,339				
		12/20/2016		70,848									95,379				
		12/27/2016		70,859									95,422				
		12/31/2016		70,865									95,440				
		Total Hours		**27,855**							**Total Hours**		**46,246**				
		Avg hrs./week day		**7.00**							**Avg hrs./week day**		**11.62**				
		Total Days Operational		**3,980**													

Table 11. LFG and SVE System Flow Rates
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

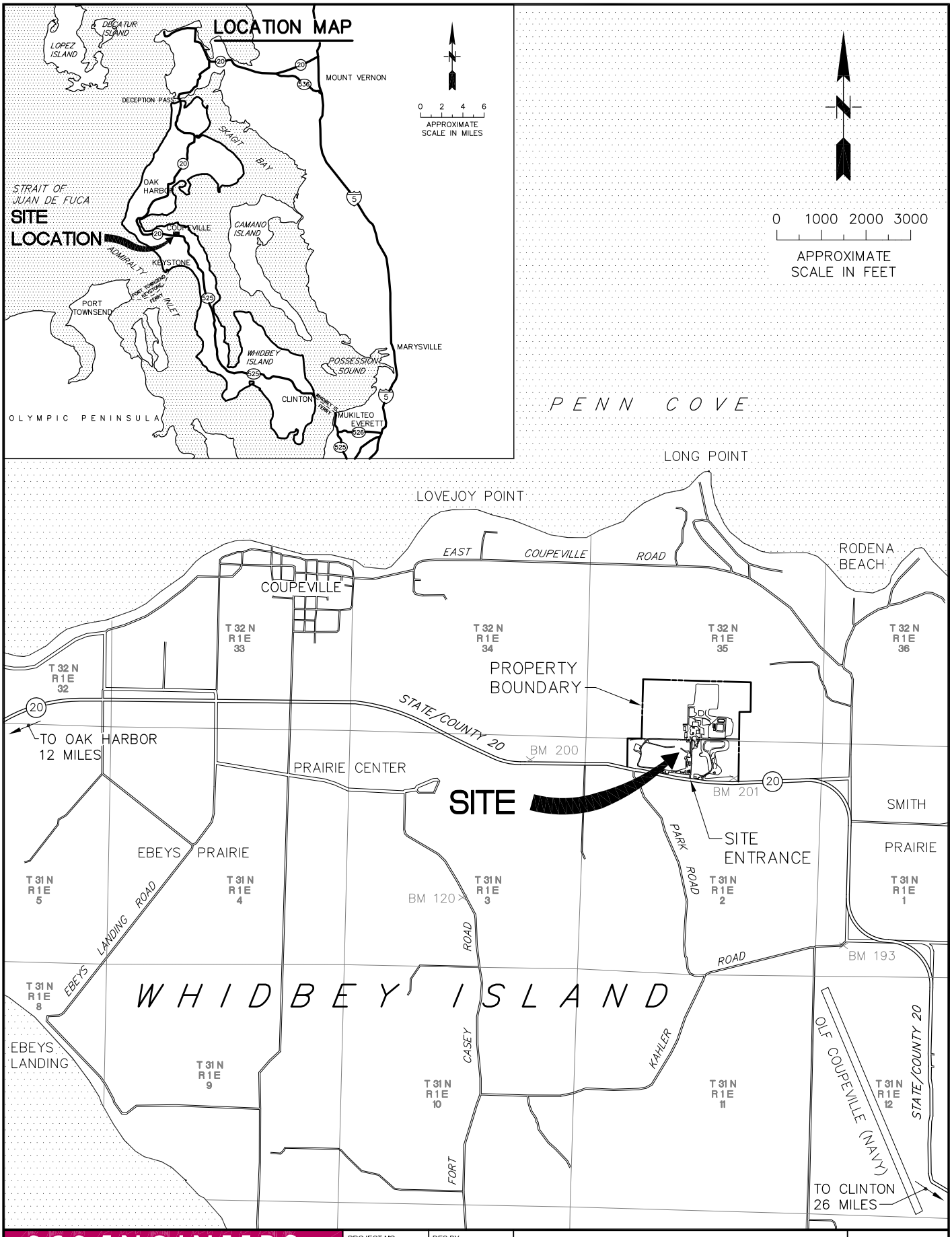
Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH_4 (scfm)
1/13/2006	4.4	19.6	0.2	94	29.3	21.0	0.1	120	70
3/1/2006	4.0	18.5	1.3	85	30.5	19.7	0.6	87	53
4/3/2006	3.2	18.0	1.7	77	33.8	20.6	1.1	88	59
5/1/2006	2.6	15.2	4.3	81	27.8	19.1	1.1	82	46
6/5/2006	2.9	16.7	2.4	65	32.8	20.5	0.3	83	54
7/13/2006	2.9	16.3	2.8	81	32.1	21.1	0.5	53	34
8/18/2006	2.7	15.8	3.0	81	29.1	20.8	0.5	73	42
9/14/2006	2.8	15.9	3.1	87	32.2	21.8	0.4	62	40
10/19/2006	2.8	16.0	3.3	93	33.3	21.3	0.4	63	42
12/4/2006	3.0	16.1	3.3	93	34.0	21.0	0.7	75	51
1/15/2007	2.8	16.0	3.0	90	33.6	20.0	0.6	49	33
2/23/2007	1.8	10.0	10.0	88	33.2	19.3	1.0	86	57
3/23/2007	3.2	15.6	3.4	84	37.9	25.0	0.0	86	65
5/1/2007	2.8	15.3	3.5	86	34.3	20.1	0.1	58	40
5/17/2007	2.9	14.9	3.6	86	33.7	20.3	0.2	56	38
6/14/2007	2.9	14.9	3.9	84	32.8	21.6	0.4	67	44
7/19/2007	2.9	14.5	3.9	80	36.5	22.2	0.5	N/M	
8/8/2007	2.9	14.4	4.5	87	32.6	20.9	2.7	46	30
9/7/2007	3.0	14.8	4.1	86	34.3	21.3	2.6	42	29
10/26/2007	3.2	15.0	4.0	94	34.5	19.5	4.0	44	30
11/26/2007	3.2	15.6	3.8	92	40.1	19.1	3.6	45	36
12/12/2007	3.3	15.3	3.6	91	41.8	20.0	2.5	85	71
1/30/2008	3.0	14.7	3.9	91	45.4	20.3	0.3	47	43
2/27/2008	2.9	14.7	4.2	91	29.8	18.4	0.9	59	35
3/18/2008	3.4	12.2	4.5	87	32.3	17.2	1.0	43.0	28
3/19/2008	3.5	14.5	3.9	81	46.5	19.4	0.0	39.0	36
8/26/2008	2.4	11.9	6.5	86.0	27.5	20.3	0.7	45.0	25
9/24/2008	2.7	12.6	6.2	90.0	29.0	21.3	0.3	45.0	26
10/29/2008	2.5	12.4	6.6	87.0	39.6	20.5	0.4	35.0	28
11/25/2008	2.8	12.8	6.2	88.0	34.3	19.6	0.2	34.0	23
12/30/2008	2.8	13.0	6.0	89.0	36.9	17.7	0.0	24.0	18
1/28/2009	2.4	12.8	11.4	86.0	39.0	19.5	0.0	31.0	24
2/24/2009	2.7	14.1	4.5	86.0	42.7	19.4	0.0	37.0	32
3/23/2009	2.7	14.4	4.4	87.0	39.8	19.6	0.0	38.0	30
4/20/2009	2.5	12.4	5.4	86.0	32.0	17.6	1.3	37.0	24
5/18/2009	2.0	12.7	5.8	84.0	33.9	18.3	0.6	36.0	24
6/25/2009	2.2	13.3	5.6	84.0	29.4	22.0	0.9	38.0	22
7/16/2009	2.5	14.3	4.4	83.0	31.7	21.5	0.9	41.0	26
8/26/2009	2.0	12.4	5.4	82.0	32.0	21.0	0.2	35.0	22
9/22/2009	3.8	15.2	0.5	67.0	42.0	21.5	0.0	37.0	31
11/23/2009	3.4	14.7	2.5	67.0	29.4	18.4	0.9	38.0	22
12/28/2009	8.9	14.1	3.7	82.0	30.3	17.5	1.8	38.0	23
2/10/2010	8.9	14.1	4.2	49.0	30.9	18.2	0.5	37.0	23
3/26/2010	0.0	8.1	3.8	53.0	4.0	8.9	1.6	39.0	3
5/21/2010	16.2	17.4	0.2	62.0	4.6	3.5	15.4	6.0	1
6/28/2010	12.8	17.7	0.9	21.0	24.0	18.7	0.6	36.0	17
8/11/2010	14.1	16.1	2.2	28.0	30.3	19.2	0.4	39.0	24
9/23/2010	4.5	22.7	3.0	72.0	36.8	35.6	0.0	35.0	26
11/18/2010	2.1	16.0	4.6	69.0	46.6	24.2	0.0	36.0	34

Table 11. LFG and SVE System Flow Rates
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH_4 (scfm)
12/22/2010	2.0	12.8	6.1	81.0	56.7	24.0	0.5	36.0	41
2/9/2011	1.5	13.5	7.6	102.0	43.1	16.8	0.7	55.0	47
3/10/2011	1.8	11.7	7.9	92.0	39.0	16.8	2.5	55.0	43
5/4/2011	3.6	13.5	5.8	86.0	45.3	19.2	1.3	56.0	51
8/4/2011	5.2	14.6	4.2	84.0	46.6	24.5	0.1	57.0	53
9/20/2011	4.3	12.5	6.3	99.0	31.6	17.1	5.2	67.0	42
11/3/2011	2.3	14.4	4.5	62.0	30.5	18.4	0.0	54.0	33
12/29/2011	5.6	13.6	4.0	78.0	36.8	18.4	0.7	54.0	40
2/7/2012	5.4	12.3	3.4	51.0	34.1	17.0	0.5	55.0	38
3/28/2012	35.7	14.9	1.2	51.0	0.3	4.0	20.4	51.0	0
5/9/2012	30.4	17.0	0.0	51.0	3.2	13.6	2.9	46.0	3
6/27/2012	1.0	14.4	4.0	37.0	30.3	18.5	0.1	81.0	49
8/9/2012	4.1	14.1	4.2	52.0	31.7	19.4	1.4	74.0	47
9/26/2012	2.9	9.2	10.1	54.0	31.9	18.3	4.2	40.0	26
11/8/2012	1.5	7.8	11.9	69.0	36.2	20.8	0.9	45.0	33
12/20/2012	2.8	11.9	7.9	67.0	37.8	20.1	1.0	84.0	64
1/30/2013	2.9	11.9	6.8	14.0	32.0	17.4	1.7	21.0	13
3/21/2013	2.5	12.3	7.3	17.0	29.0	18.3	1.2	26.0	15
4/30/2013	2.9	12.1	7.1	14.0	30.4	17.6	1.4	24.0	15
6/18/2013	2.7	11.5	6.9	17.0	36.0	19.3	0.9	27.0	19
8/1/2013	2.4	10.5	8.7	15.0	30.6	18.2	3.6	15.0	9
9/19/2013	1.9	8.2	11.6	15.0	39.8	22.3	0.3	20.0	16
10/29/2013	1.9	8.0	11.4	9.0	27.7	15.7	5.3	34.0	19
12/17/2013	2.3	10.1	9.5	12.0	29.8	16.0	4.0	39.0	23
2/13/2014	19.8	14.4	5.3	16.0	29.3	16.1	1.0	32.0	19
5/7/2014	N/M	N/M	N/M	N/M	33.9	17.7	1.3	54.0	37
6/18/2014	N/M	N/M	N/M	N/M	37.8	19.2	0.0	46.0	35
8/5/2014	N/M	N/M	N/M	N/M	32.5	19.3	1.7	41.4	27
9/16/2014	N/M	N/M	N/M	N/M	36.3	20.4	1.5	43.8	32
10/29/2014	N/M	N/M	N/M	N/M	33.4	19.2	1.7	41.3	28
12/16/2014	N/M	N/M	N/M	N/M	36.9	18.7	1.1	41.0	30
2/3/2015	N/M	N/M	N/M	N/M	30.2	17.2	1.6	41.2	25
3/18/2015	0.1	0.5	21.1	21.4	27.1	16.5	1.6	45.5	25
4/29/2015	9.4	10.1	8.5	13.4	27.4	17.1	0.9	44.0	24
6/16/2015	0.0	0.3	20.2	17.6	28.6	18.7	1.3	41.9	24
8/4/2015	0.1	0.6	19.8	0.0	23.3	16.9	3.1	43.9	20
9/15/2015	4.1	3.7	17.3	16.7	25.2	15.2	6.8	42.3	21
10/28/2015	0.0	0.5	20.3	19.1	29.2	19.2	0.5	38.7	23
12/10/2015	0.0	0.2	21.0	5.3	31.6	15.9	3.5	40.4	26
2/3/2016	0.0	0.6	20.5	0.0	24.6	14.1	3.8	0.0	0
3/23/2016	11.1	15.7	1.3	0.0	26.9	16.8	0.7	0.0	0
5/12/2016	24.5	15.9	1.4	18.0	22.2	13.5	2.9	50.0	22
7/25/2016	21.1	16.3	0.1	0.0	46.0	21.5	0.0	51.0	47
11/18/2016	1.4	15.0	0.9	33.0	50.7	21.2	0.2	50.0	51
12/20/2016	0.8	12.3	4.3	29.0	48.1	19.9	0.0	50.0	48

N/M - Not measured

FIGURES



SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	PROJECT NO. 04207033.09	DES BY L.L.	SITE LOCATION MAP ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON	DATE JANUARY 2017
	SCALE AS SHOWN	CHK BY G.H.		FIGURE 1
	CAD FILE FIGURE 1	APP BY D.V.		

NOTES:

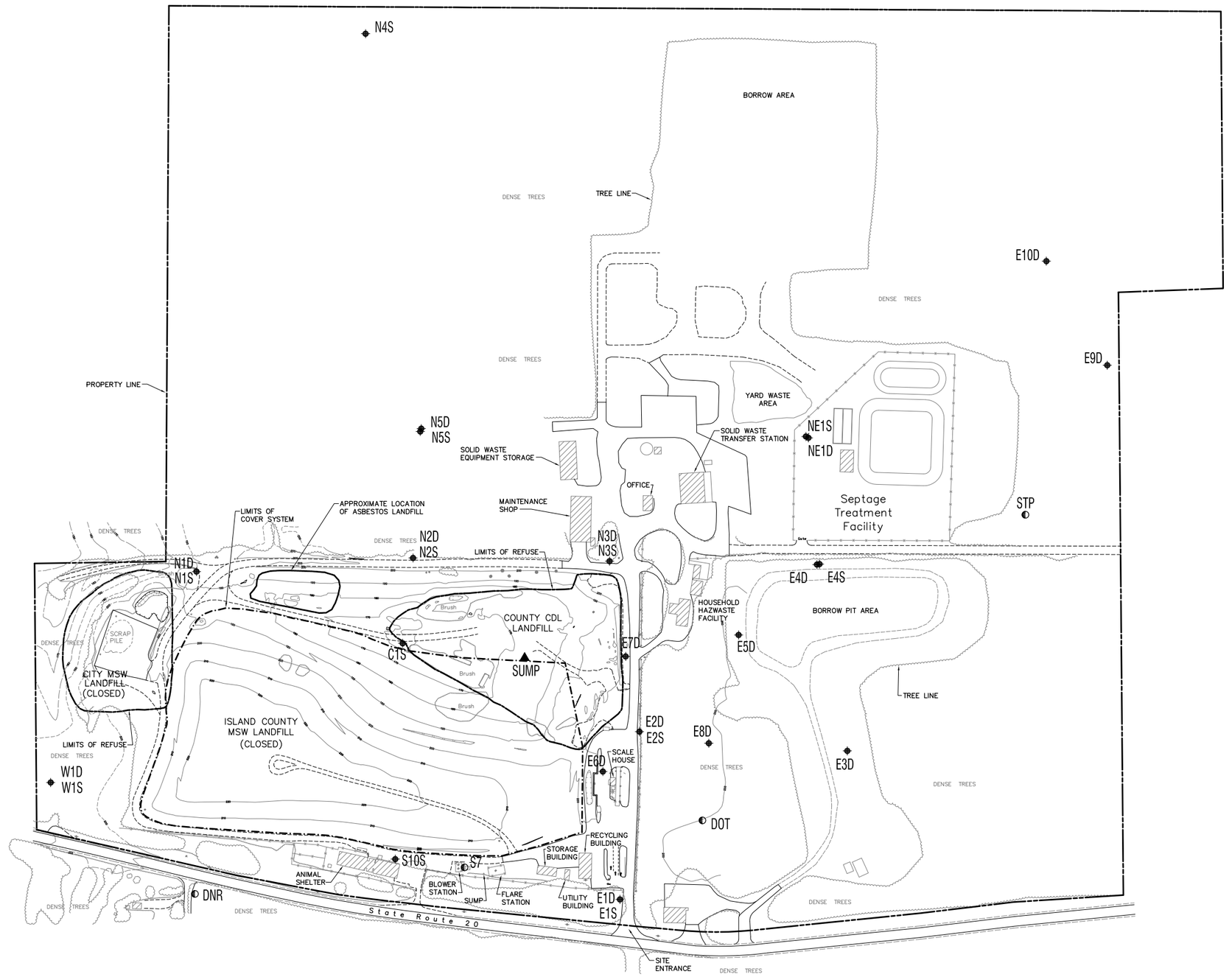
THE SITE TOPOGRAPHIC BASE MAP WAS CREATED BY AERIAL PHOTOGRAMMETRY. BASE MAP PREPARED BY OTHERS. DATE OF PHOTOGRAPH 12-OCT-02.

HORIZONTAL DATUM

HORIZONTAL CONTROL IS BASED ON ASSUMED COORDINATE SYSTEM WITH POINT OF BEGINNING AT USGS BENCH MARK (BM 000).

VERTICAL DATUM

VERTICAL CONTROL IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM.



LEGEND

- Groundwater Monitoring Well
- Pumping Well
- SUMP

GRAPHIC SCALE:

0 300 600

SCALE IN FEET

OFFSITE WELL PAIR S11S/D IS LOCATED APPROXIMATELY 650 FT SOUTH OF ROUTE 20

OFFSITE WELL PAIR SES/D IS LOCATED APPROXIMATELY 500 FT SOUTH OF ROUTE 20

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ANNUAL ENVIRONMENTAL MONITORING DATA REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY L.L.	GROUNDWATER MONITORING WELL NETWORK	DATE JANUARY 2017
SCALE AS SHOWN	CHK BY G.H.		FIGURE 2
CAD FILE Figure 2	APP BY D.V.		

Figure 3. Groundwater Elevation Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

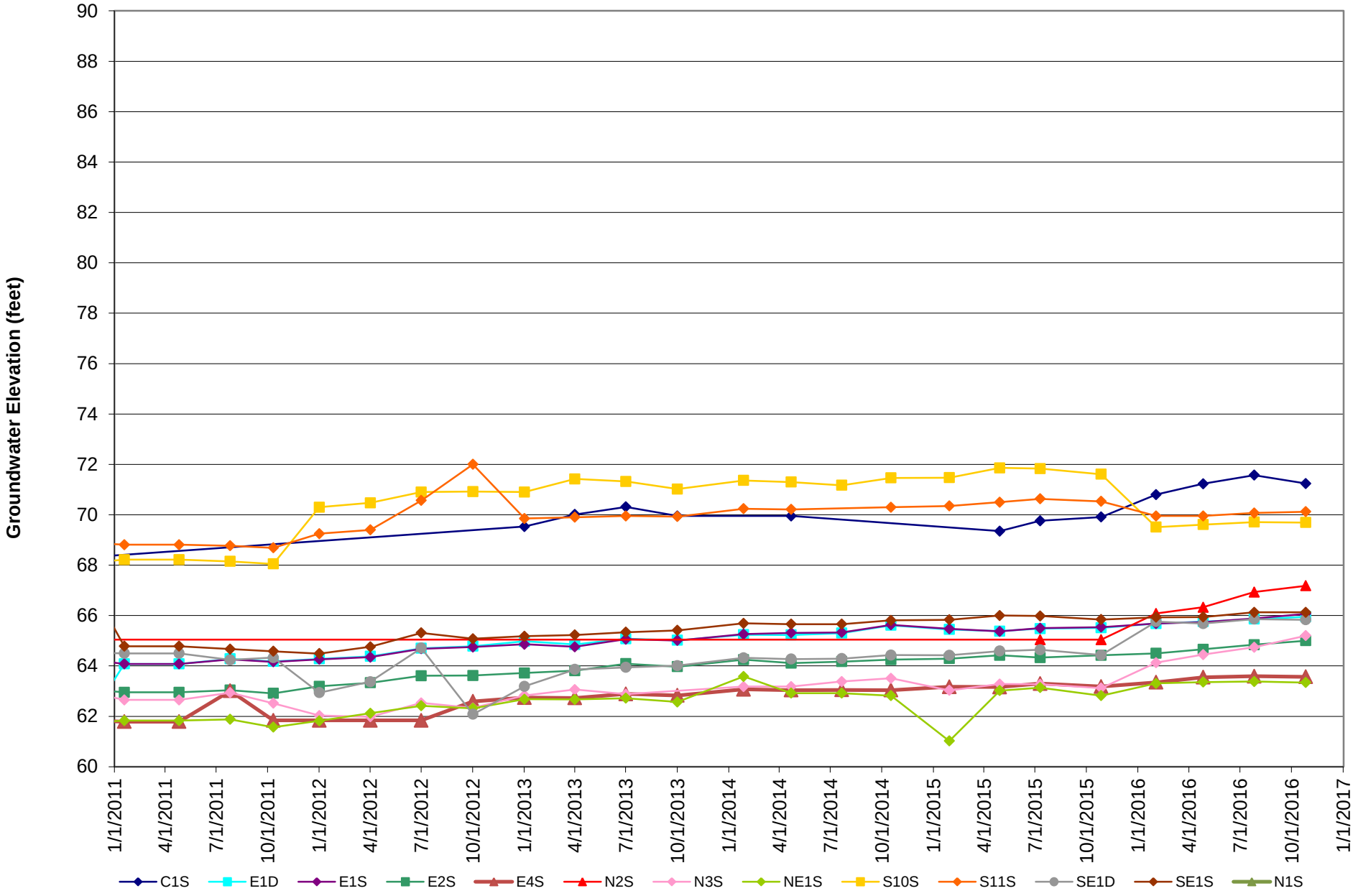


Figure 4. Groundwater Elevation Time Series - Perched Groundwater Zone
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

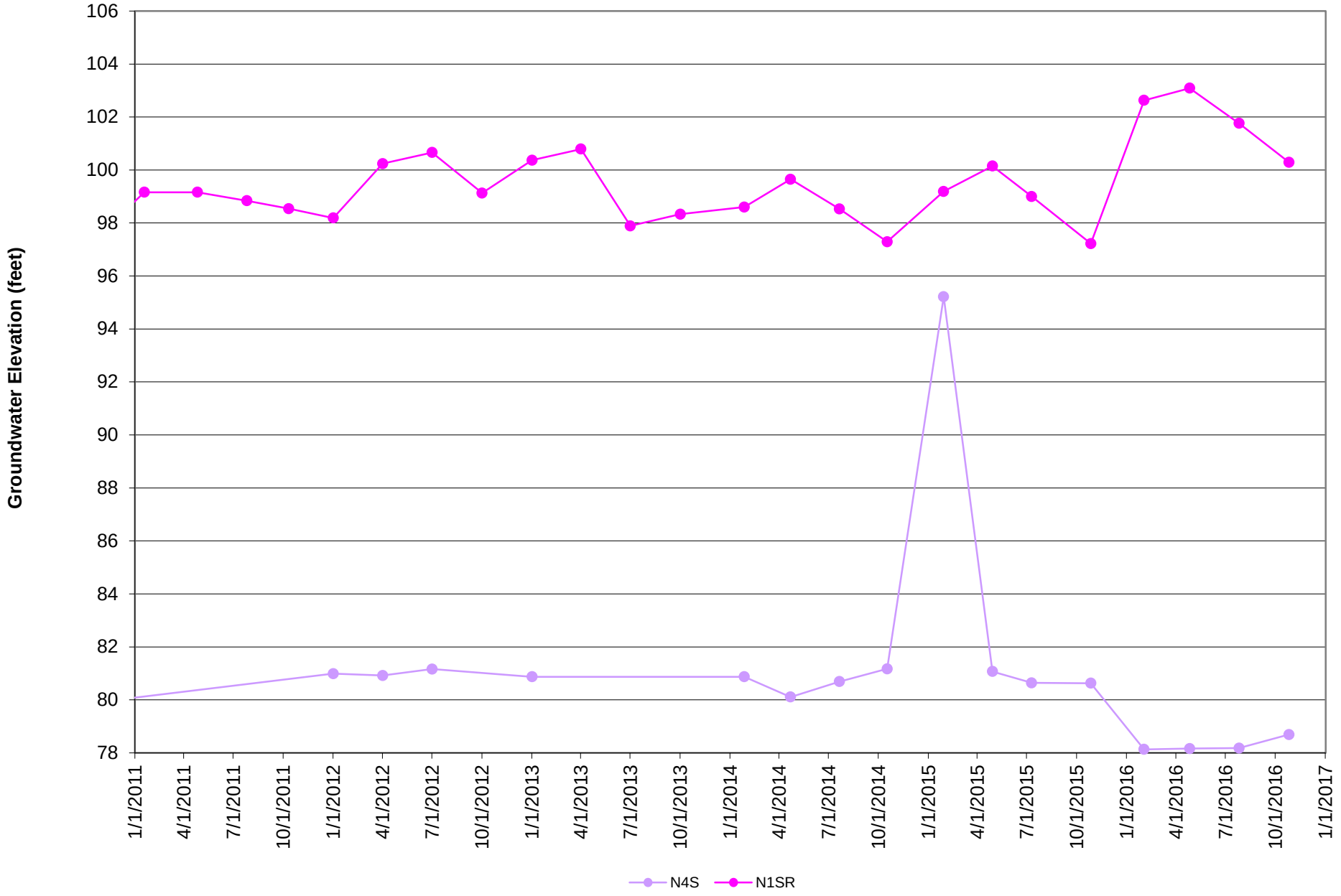
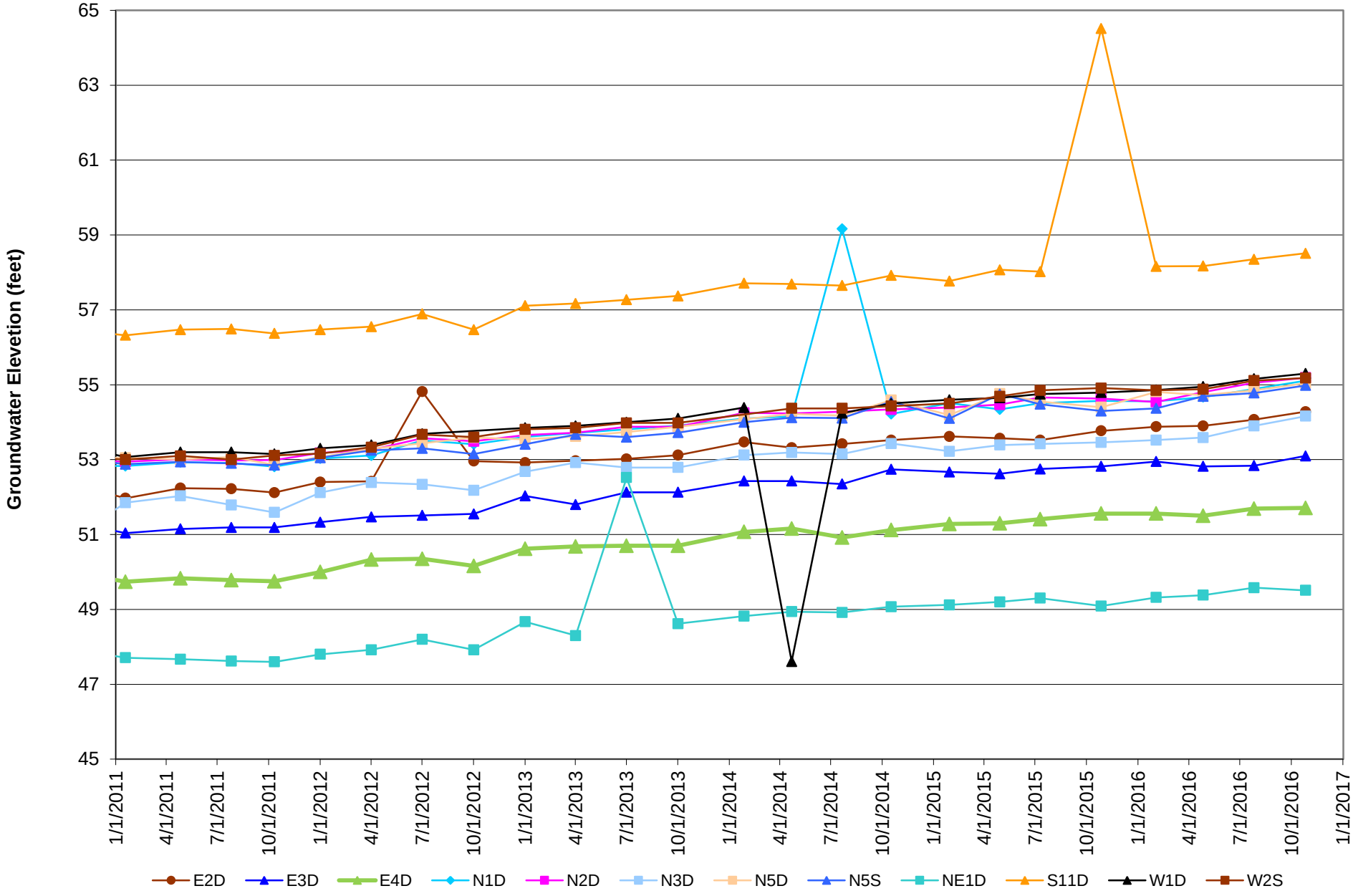
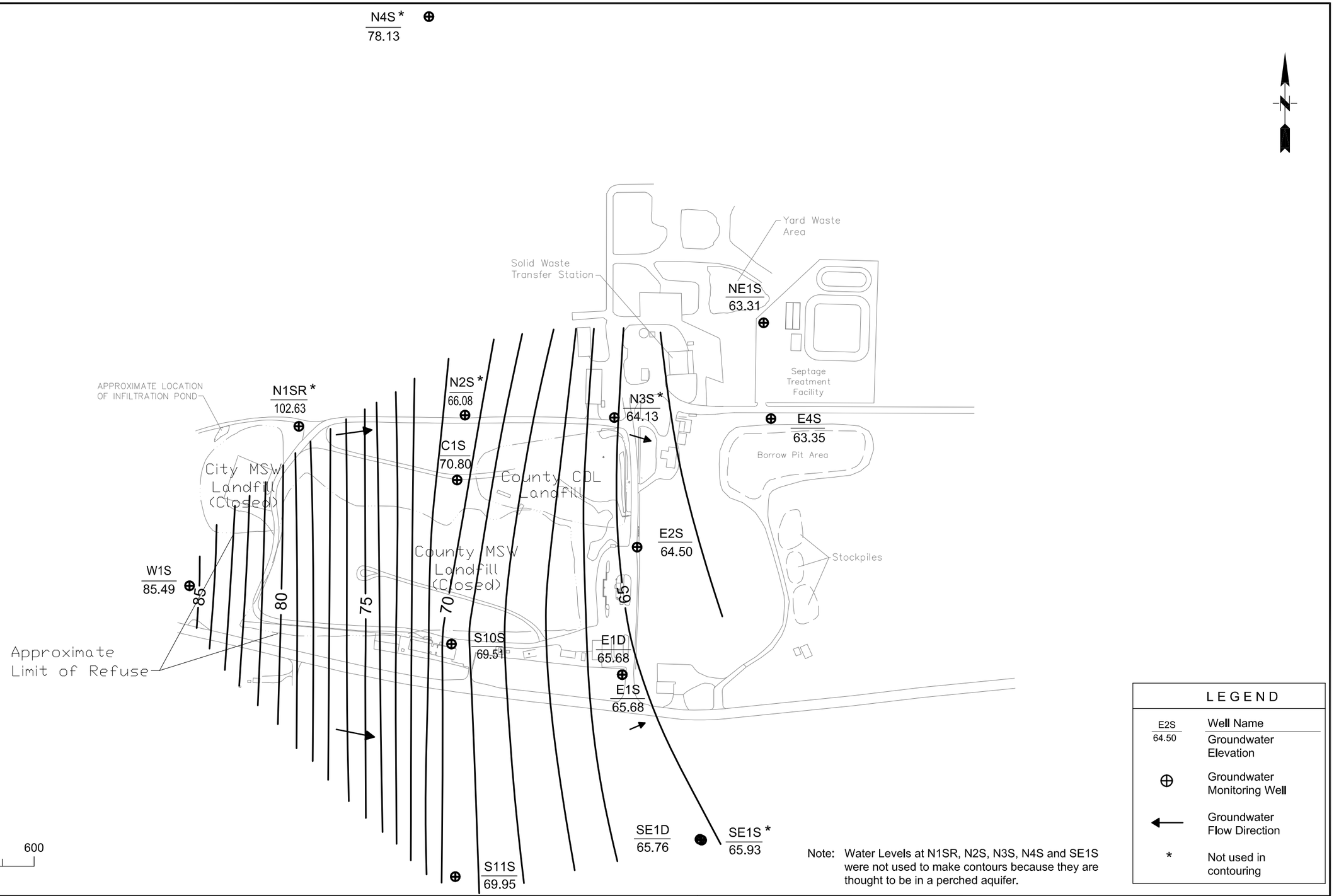


Figure 5. Groundwater Elevation Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington





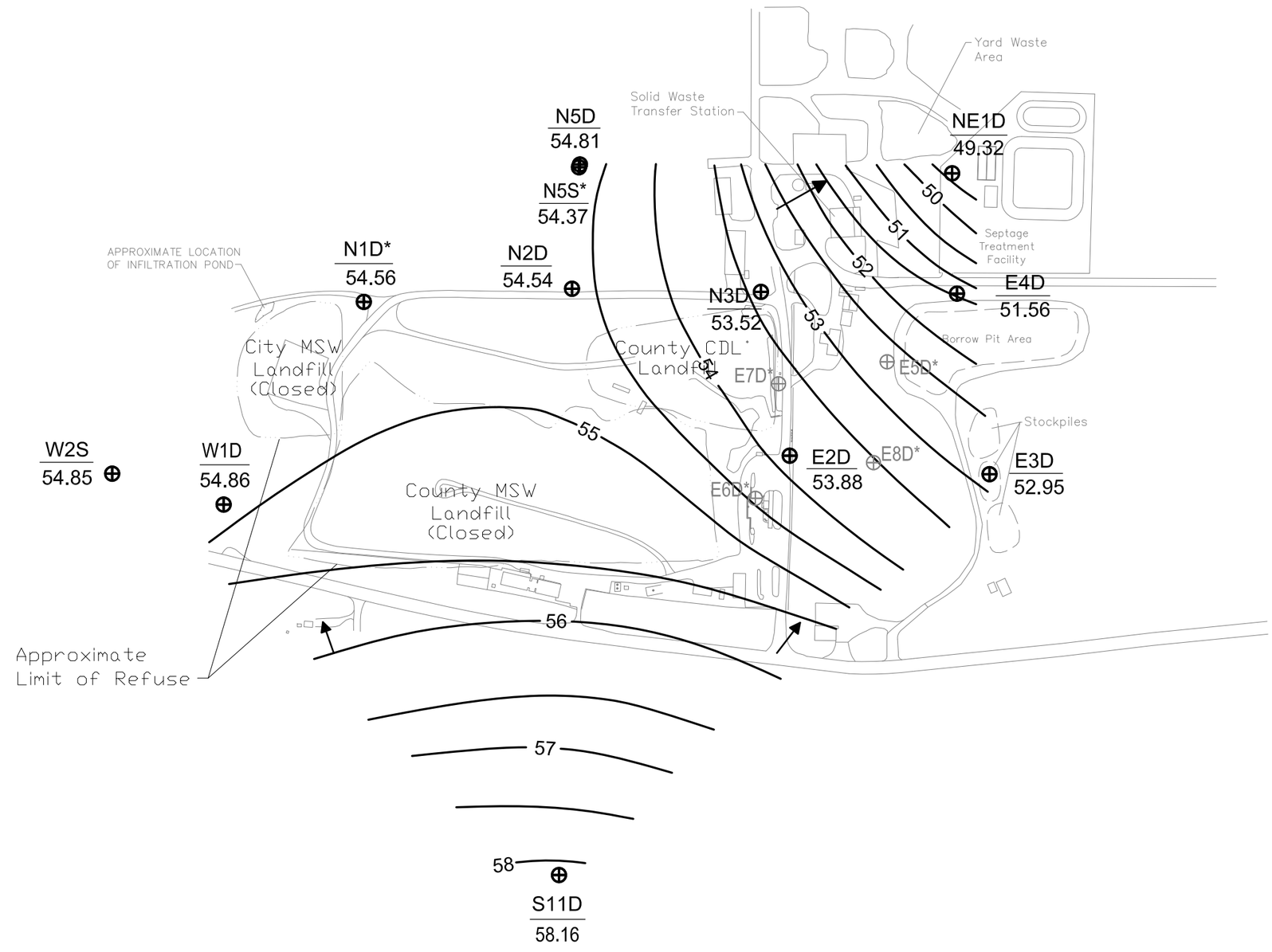
Note: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.

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2016 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.	FEBRUARY 2016 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE JANUARY 2017
SCALE 1" = 300'	CHK BY G.H.		FIGURE 6A
CAD FILE Figure 6A	APP BY D.V.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

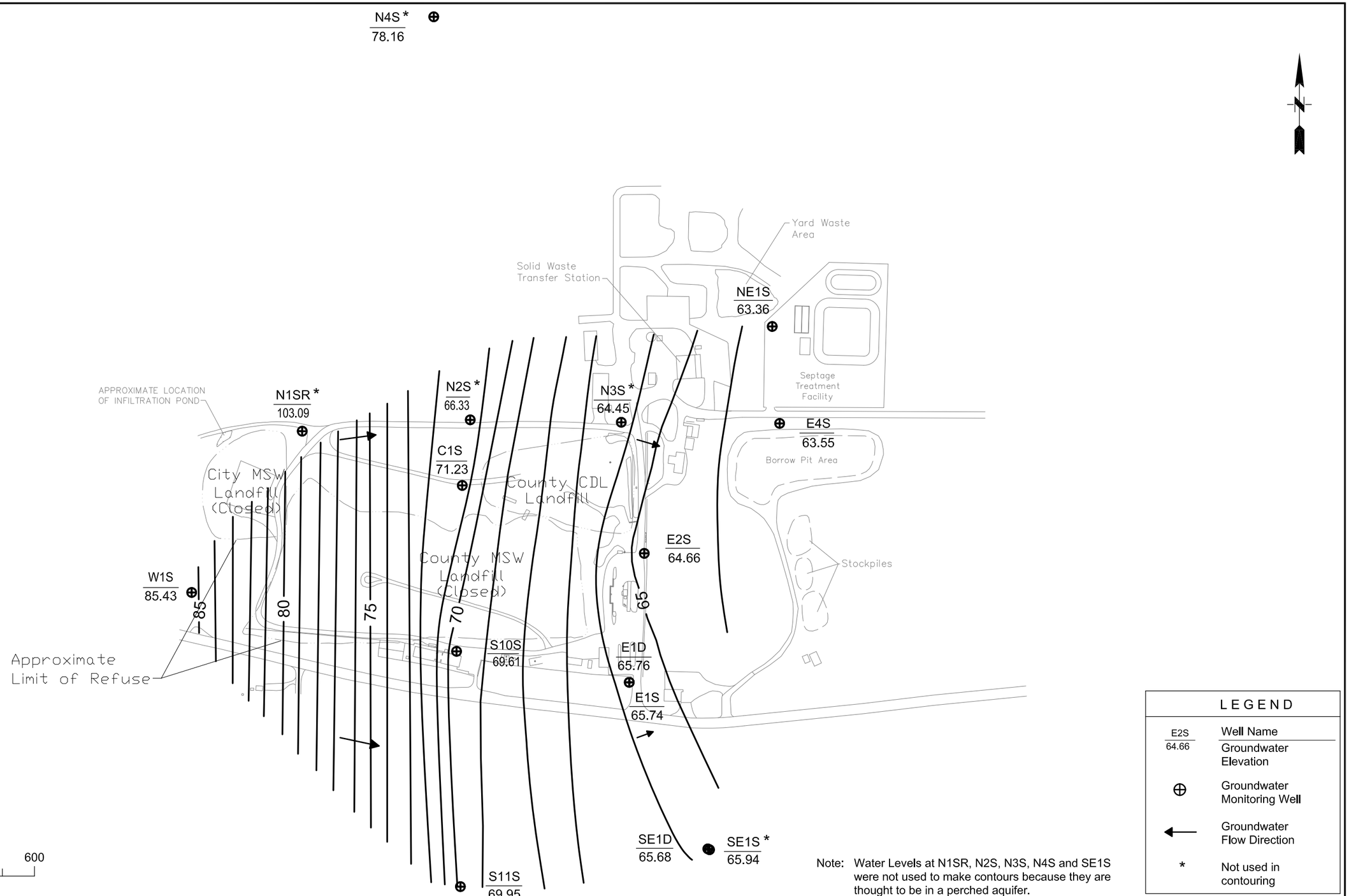
LEGEND	
E3D / 52.95	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring

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2017 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.	FEBRUARY 2016 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE JANUARY 2017
SCALE 1" = 300'	CHK BY D.V.		FIGURE 6B
CAD FILE Figure 6B	APP BY G.H.		



Note: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.

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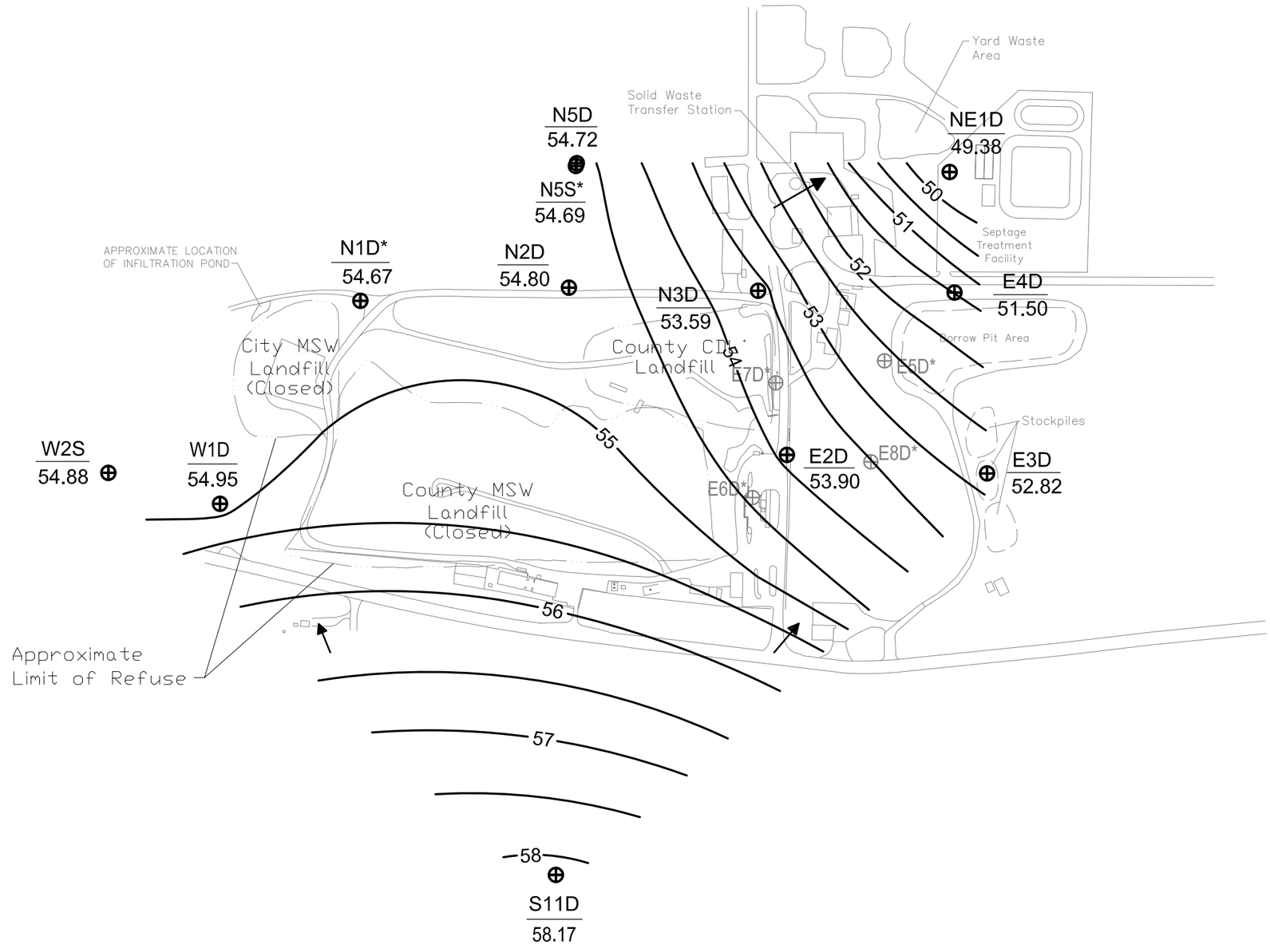
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.
SCALE 1" = 300'	CHK BY G.H.
CAD FILE Figure 7A	APP BY D.V.

APRIL 2016
AQUIFER 1 GROUNDWATER ELEVATION MAP

DATE JANUARY 2017

FIGURE 7A



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

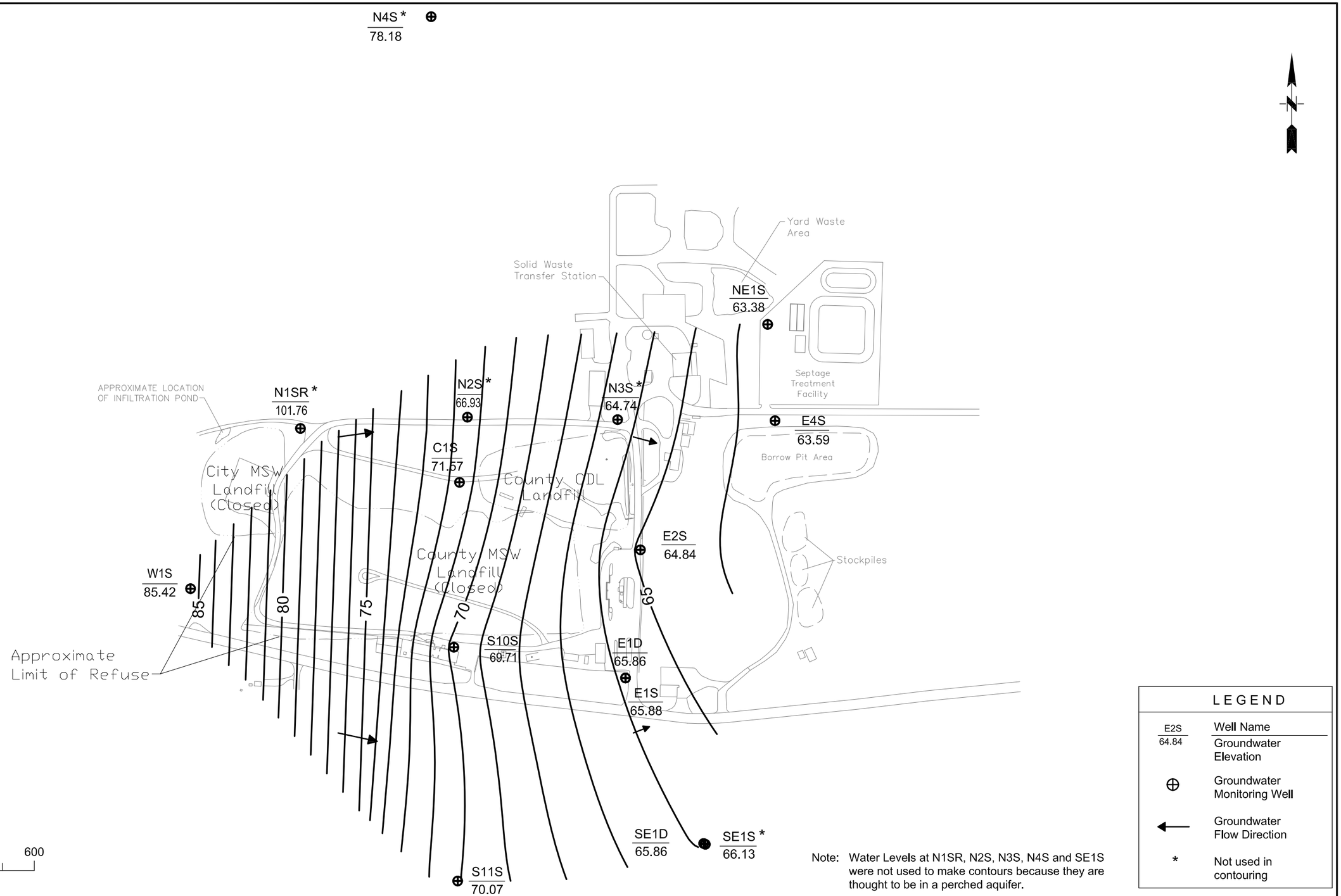
LEGEND	
E3D / 52.82	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring

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2016 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.	APRIL 2016 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE JANUARY 2017
SCALE 1" = 300'	CHK BY D.V.		FIGURE 7B
CAD FILE Figure 7B	APP BY G.H.		



Note: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.

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2016 ANNUAL ENVIRONMENTAL MONITORING REPORT

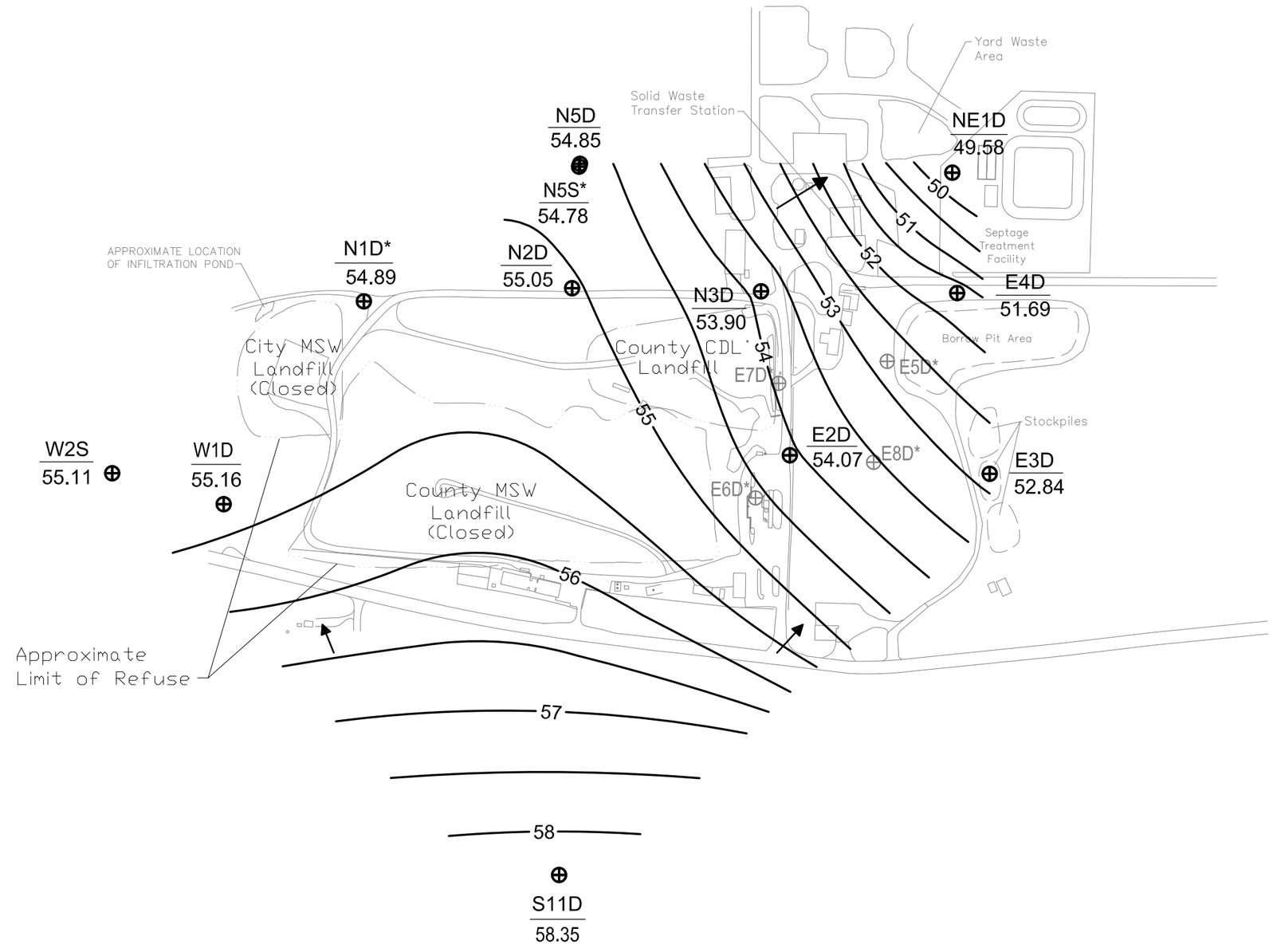
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.
SCALE 1" = 300'	CHK BY D.V.
CAD FILE Figure 8A	APP BY G.H.

JULY 2016
AQUIFER 1 GROUNDWATER ELEVATION MAP

DATE JANUARY 2017

FIGURE 8A



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

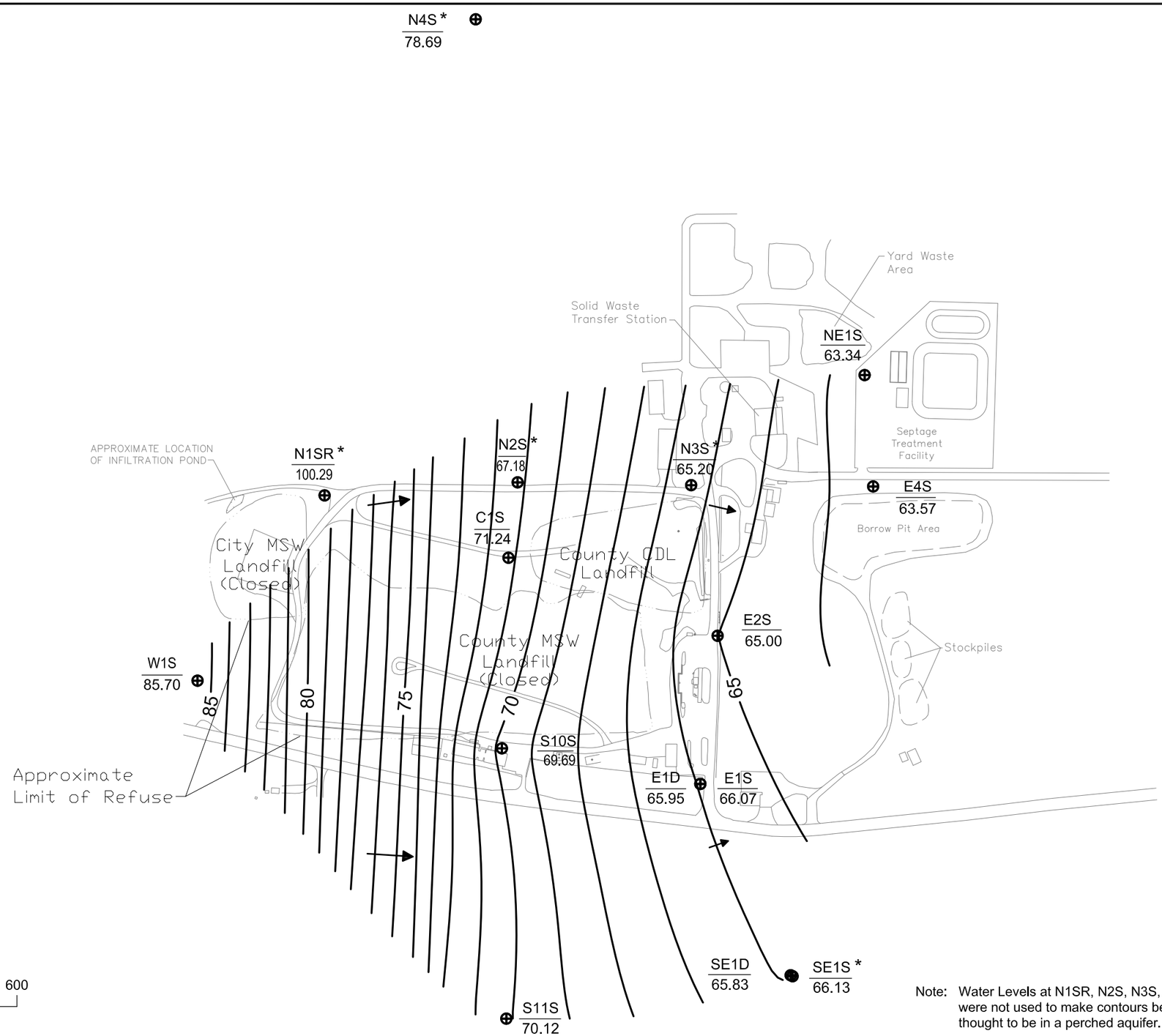
LEGEND	
E3D / 52.84	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring

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2016 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.	JULY 2016 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE JANUARY 2017
SCALE 1" = 300'	CHK BY D.V.		FIGURE 8B
CAD FILE Figure 8B	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND	
E2S 65.00	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

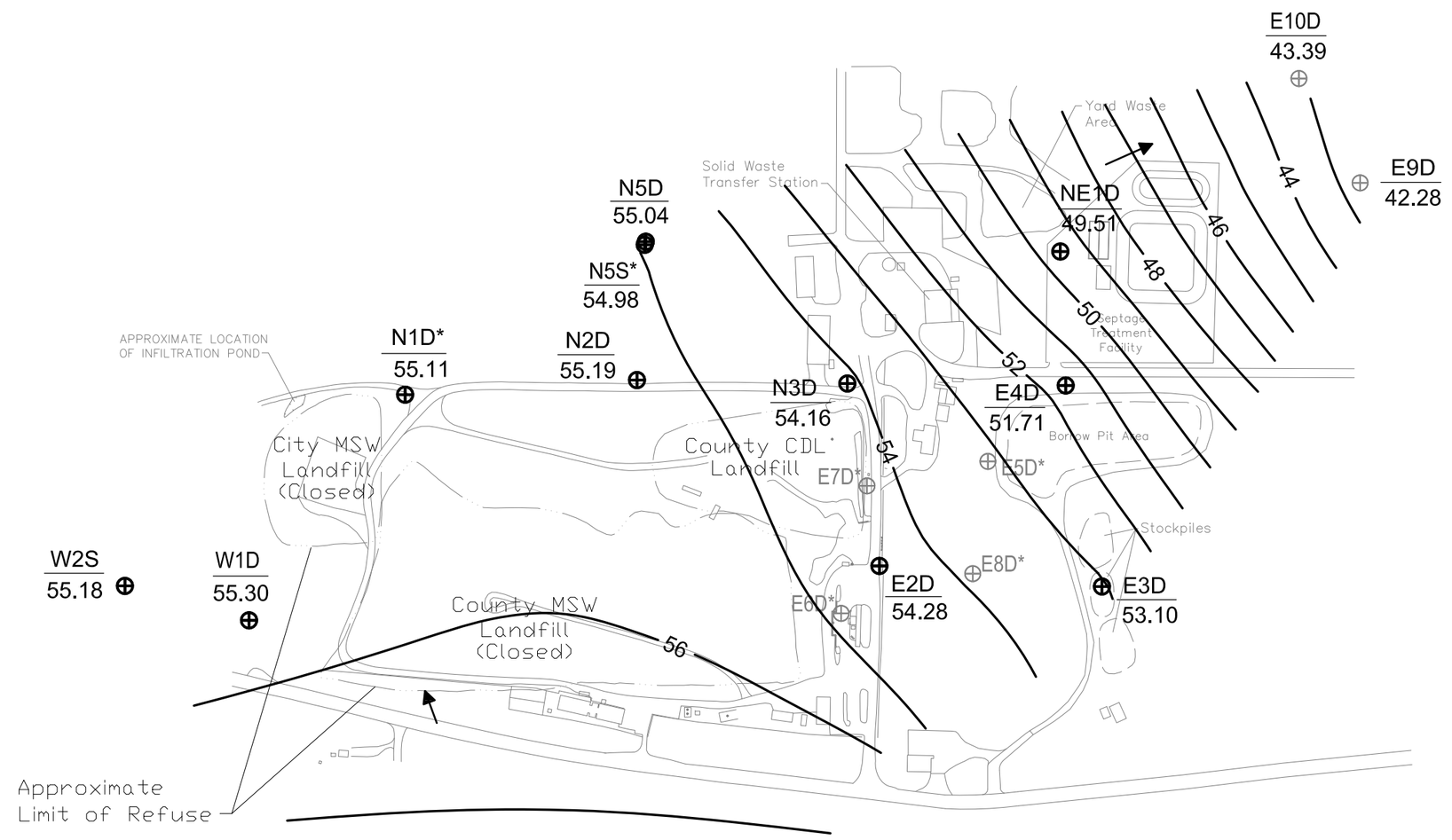
Note: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.

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2016 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.	OCTOBER 2016 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE JANUARY 2017
SCALE 1" = 300'	CHK BY D.V.		FIGURE 9A
CAD FILE Figure 9A	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND

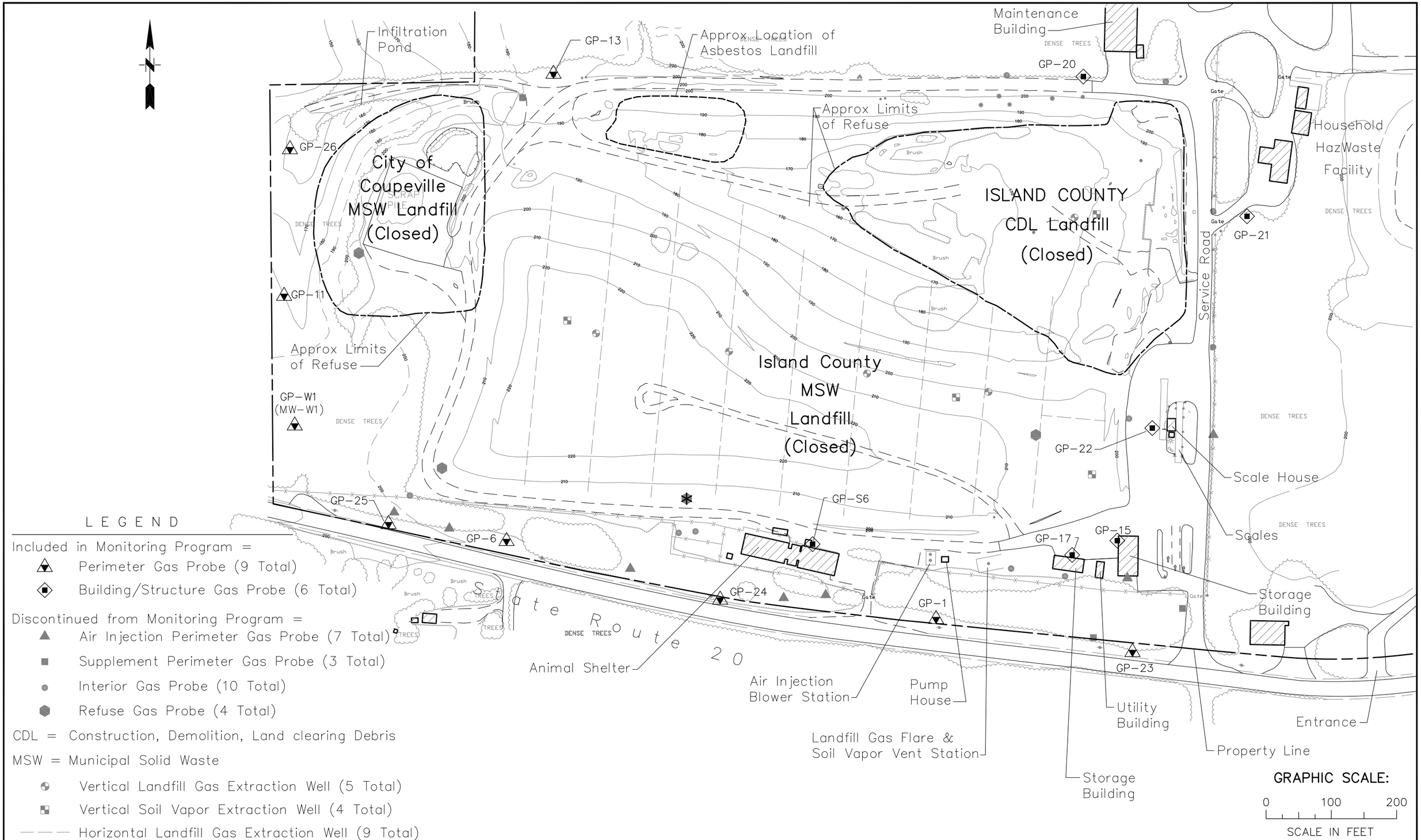
E3D / 53.10	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring

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2016 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY S.G.	OCTOBER 2016 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE JANUARY 2017
SCALE 1" = 300'	CHK BY D.V.		FIGURE 9B
CAD FILE Figure 9B	APP BY G.H.		



LEGEND

Included in Monitoring Program =

- Perimeter Gas Probe (9 Total)
- Building/Structure Gas Probe (6 Total)

Discontinued from Monitoring Program =

- Air Injection Perimeter Gas Probe (7 Total)
- Supplement Perimeter Gas Probe (3 Total)
- Interior Gas Probe (10 Total)
- Refuse Gas Probe (4 Total)

CDL = Construction, Demolition, Land clearing Debris

MSW = Municipal Solid Waste

- Vertical Landfill Gas Extraction Well (5 Total)
- Vertical Soil Vapor Extraction Well (4 Total)
- Horizontal Landfill Gas Extraction Well (9 Total)

GRAPHIC SCALE:

0 100 200

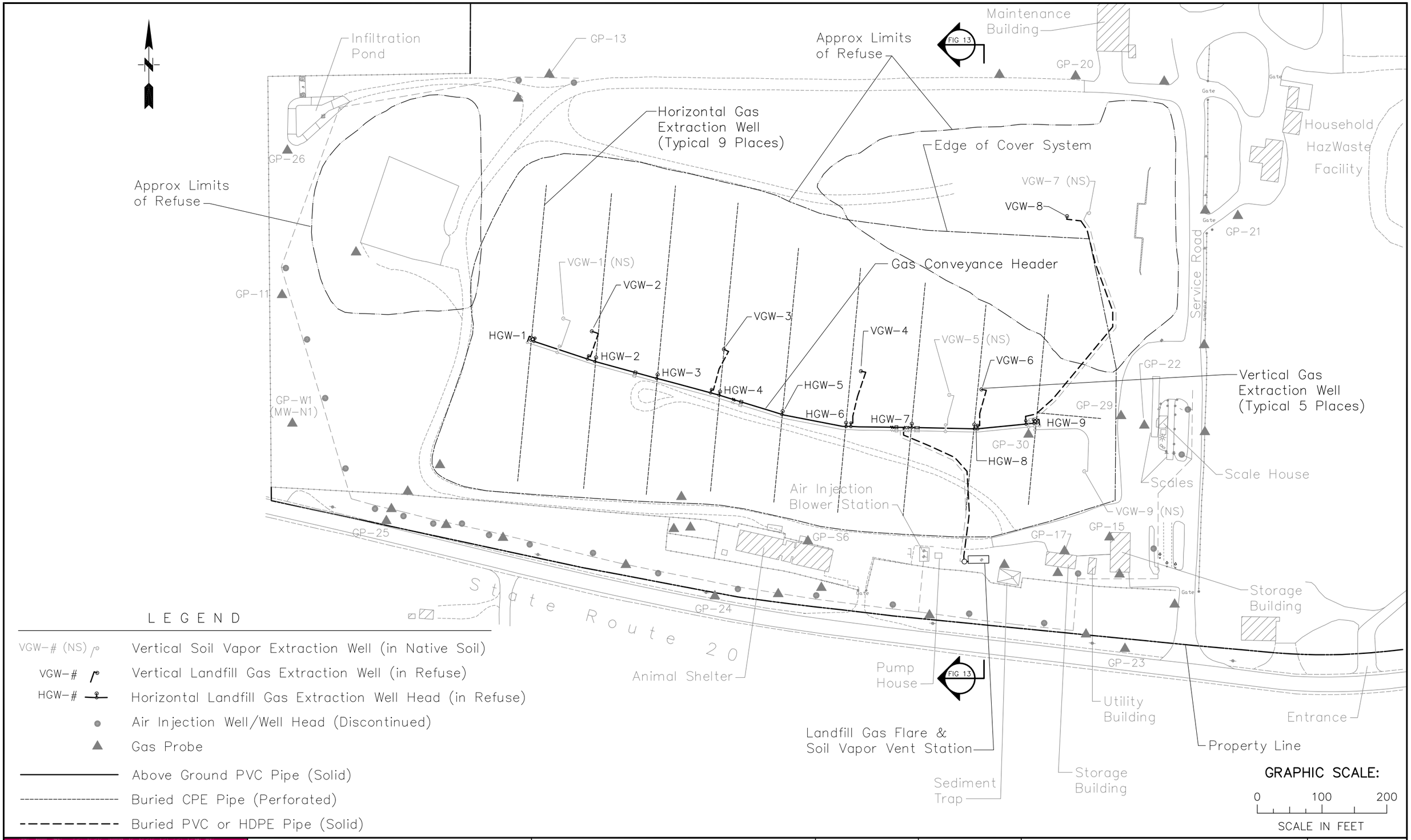
SCALE IN FEET

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2016 ANNUAL ENVIRONMENTAL MONITORING DATA REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY T.M.	LANDFILL GAS PROBE MONITORING NETWORK	DATE JANUARY 2017
SCALE AS SHOWN	CHK BY G.H.		FIGURE 10
CAD FILE Figure 10	APP BY D.V.		



LEGEND

- VGW-# (NS) — Vertical Soil Vapor Extraction Well (in Native Soil)
- VGW-# — Vertical Landfill Gas Extraction Well (in Refuse)
- HGW-# — Horizontal Landfill Gas Extraction Well Head (in Refuse)
- Air Injection Well/Well Head (Discontinued)
- Gas Probe
- Above Ground PVC Pipe (Solid)
- Buried CPE Pipe (Perforated)
- Buried PVC or HDPE Pipe (Solid)

GRAPHIC SCALE:

0 100 200

SCALE IN FEET

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2016 ANNUAL ENVIRONMENTAL MONITORING DATA REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY T.M.	LANDFILL GAS EXTRACTION SYSTEM	DATE JANUARY 2017
SCALE AS SHOWN	CHK BY G.H.		FIGURE 11
CAD FILE Figure 11	APP BY D.V.		

Infiltration Pond
GP-13
Approx Limits of Refuse
FIG 13
Maintenance Building
GP-20
Gate
Household HazWaste Facility
Edge of Cover System
VGW-7 (NS)
VGW-8
Approx Limits of Refuse
Gate
GP-21
Service Road
VGW-1 (NS)
Gas Conveyance Header
Vertical Soil Vapor Extraction Well (Typical 4 Places)
GP-11
VGW-2
VGW-3
VGW-4
VGW-5 (NS)
VGW-6
HGW-1
HGW-2
HGW-3
HGW-4
HGW-5
HGW-6
HGW-7
HGW-9
GP-22
GP-29
GP-W1 (MW-N1)
GP-30
HGW-8
Scales
Scale House
Air Injection Blower Station
VGW-9 (NS)
GP-S6
GP-15
GP-17
Gate
Storage Building
State Route 20
GP-24
GP-23
Animal Shelter
Pump Station
FIG 13
Utility Building
Entrance
Landfill Gas Flare & Soil Vapor Vent Station
Property Line
Sediment Trap
Storage Building

LEGEND

- VGW-# (NS) — Vertical Soil Vapor Extraction Well (in Native Soil)
- VGW-# — Vertical Landfill Gas Extraction Well (in Refuse)
- HGW-# — Horizontal Landfill Gas Extraction Well Head (in Refuse)
- Air Injection Well/Well Head (Discontinued)
- Gas Probe
- Above Ground PVC Pipe (Solid)
- Buried CPE Pipe (Perforated)
- Buried PVC or HDPE Pipe (Solid)

GRAPHIC SCALE:
0 100 200
SCALE IN FEET

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ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

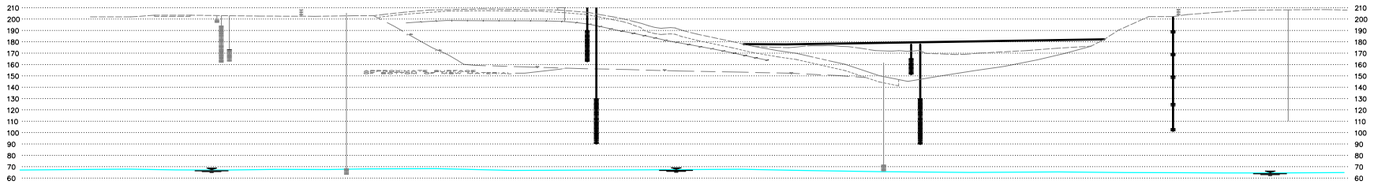
PROJECT NO. 04207033.09	DES BY T.M.
SCALE AS SHOWN	CHK BY G.H.
CAD FILE Figure 12	APP BY D.V.

SOIL VAPOR EXTRACTION SYSTEM

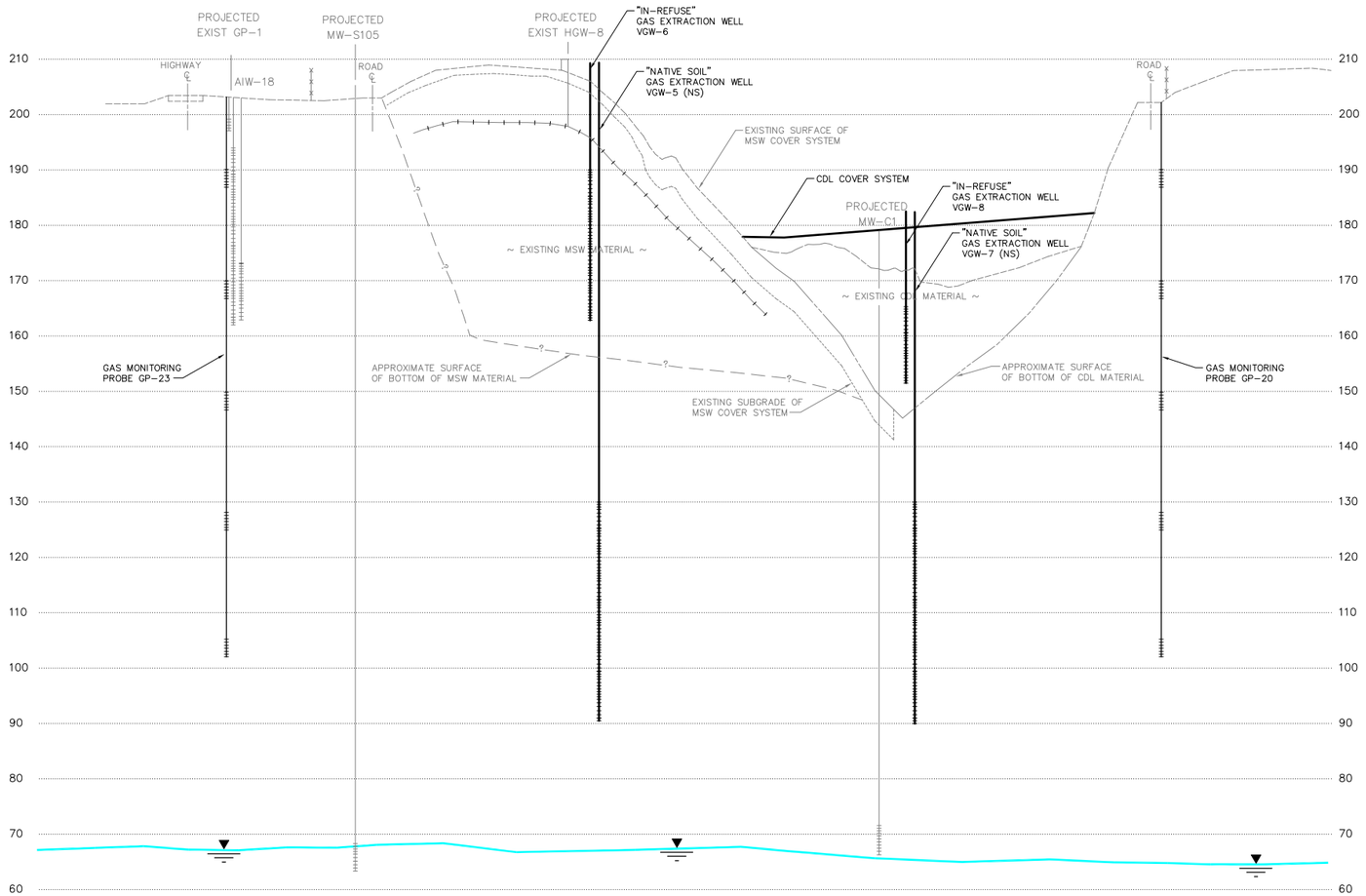
DATE JANUARY 2017
FIGURE 12

LEGEND

GP-1 = GAS PROBE
AIW-18 = AIR INJECTION WELL
GEW-9 = GAS EXTRACTION WELL
MW-S105 = GROUNDWATER MONITORING WELL



VIEW LOOKING WEST



GRAPHIC SCALE:

0 100 200

HORIZ. SCALE IN FEET

0 20 40

VERT. SCALE IN FEET

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2016 ANNUAL ENVIRONMENTAL MONITORING DATA REPORT
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.09	DES BY L.L.	CROSS SECTION THRU MSW AND CDL LANDFILLS SHOWING EXTRACTION SYSTEMS	DATE JANUARY 2017
SCALE AS SHOWN	CHK BY G.H.		FIGURE 13
CAD FILE Figure 13	APP BY D.V.		

Figure 14. Water Removed from Stormwater Pump Station
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

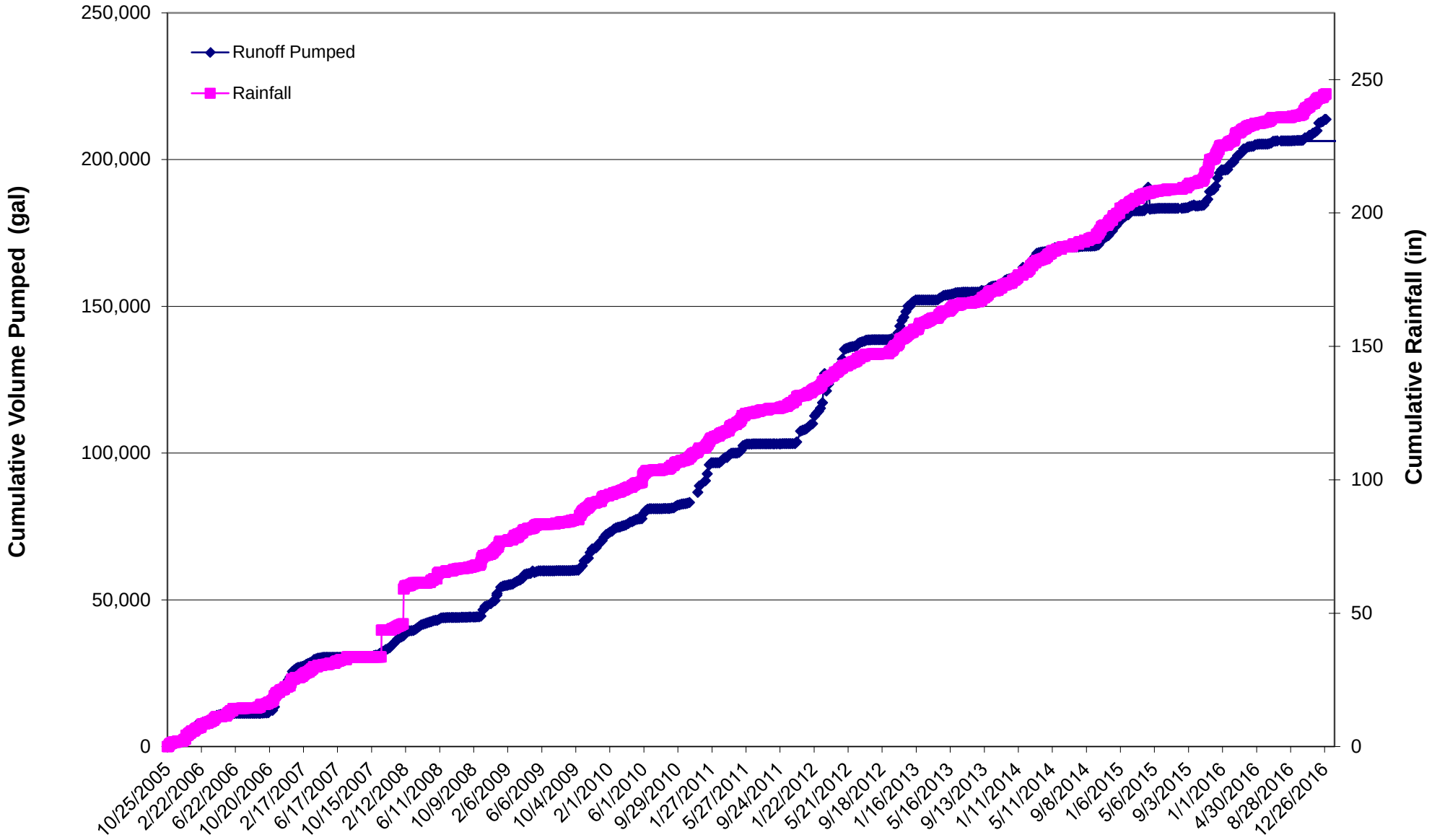
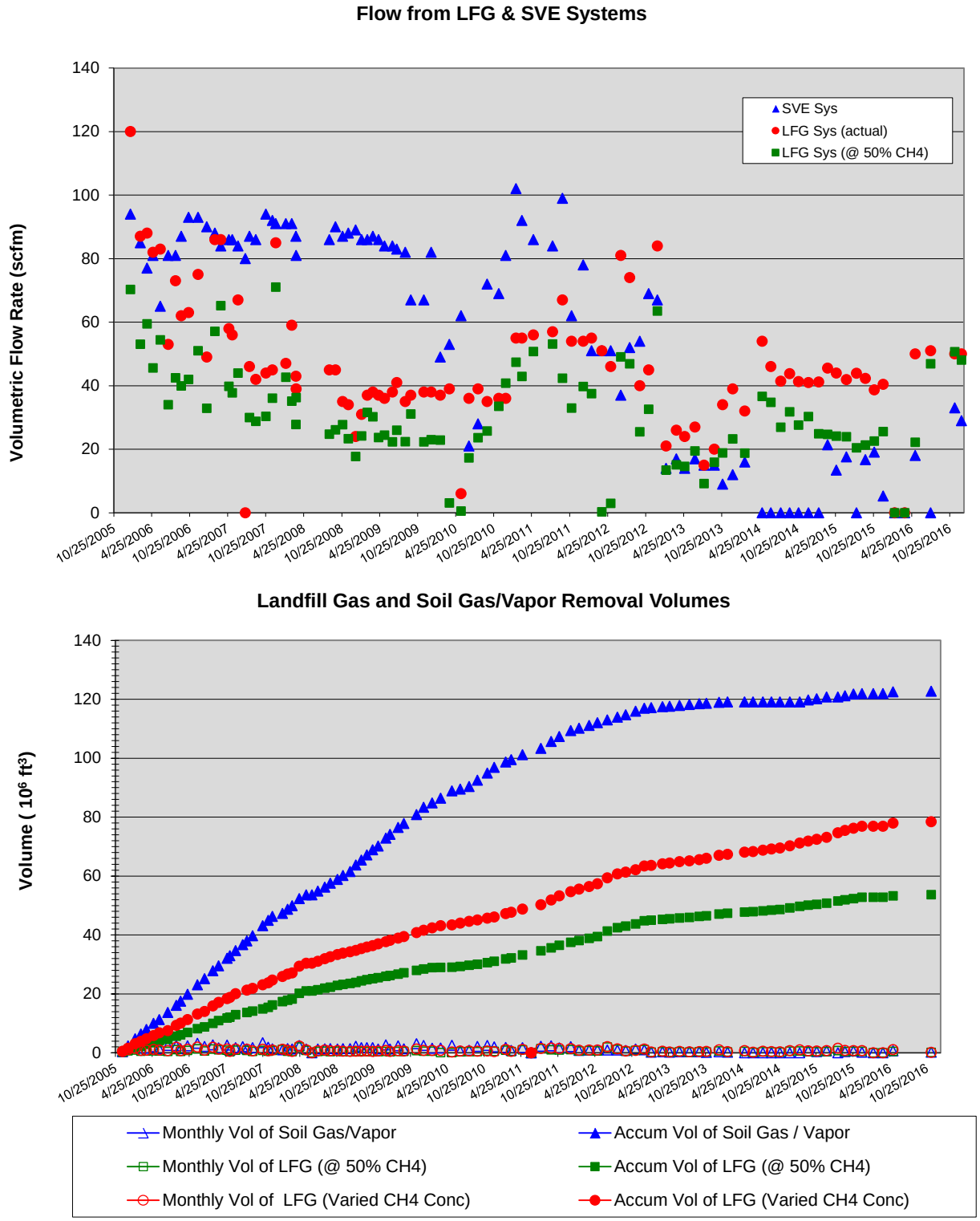


Figure 15. Flow Rates and Removal Volumes for LFG and SVE Systems
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



APPENDIX A

2016 FIELD DOCUMENTATION

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and Contractors

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SCS ENGINEERS

February 4, 2016

File No. 04207033.09

Subject: **First Quarter 2016 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: February 1-4, 2016
Personell: Sam Graber & Stephen Palachuk

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells C1S and N2D.
- Water level elevations were measured at monitoring wells W1S on February 1, 2016, and N4S, on Febraury 4, 2016.
- Meters were calibrated daily prior to sampling.
- pH probe on YSI multimeter tool malfunctioned, field staff used pH pen to determine pH for wells that YSI was used for.
- Split samples were collected for VOC analysis at E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
2/1/2016	0216-01	DOT
2/1/2016	0216-02	S7
2/1/2016	0216-03	DNR
2/1/2016	0216-04	WR1
2/1/2016	0216-05	N3D
2/1/2016	0216-06	W1D
2/1/2016	0216-07	N3S
2/1/2016	0216-08	C1S
2/1/2016	0216-09	N1D
2/1/2016	0216-10	C1S (Duplicate)
2/2/2016	0216-11	E4D
2/2/2016	0216-12	E2S
2/2/2016	0216-13	E4S
2/2/2016	0216-14	E2D
2/2/2016	0216-15	NE1D

Date Sampled	Sample Number	Well Number
2/2/2016	0216-16	S10S
2/2/2016	0216-17	NE1S
2/2/2016	0216-18	E1D
2/3/2016	0216-19	SE1S
2/2/2016	0216-20	S10S Split to Edge
2/3/2016	0216-21	SE1D
2/2/2016	0216-22	E1D Split to Edge
2/3/2016	0216-23	S11S
2/2/2016	0216-24	E1S
2/3/2016	0216-25	S11D
2/3/2016	0216-26	W2S
2/3/2016	0216-27	E3D
2/3/2016	0216-28	N5D
2/3/2016	0216-29	N1SR
2/3/2016	0216-30	N5D Split to Edge
2/4/2016	0216-31	N2S
2/4/2016	0216-32	N2S Split to Edge
2/4/2016	0216-33	N2D
2/4/2016	0216-34	N2D Split to Edge
2/4/2016	0216-35	N2D (Duplicate)
2/4/2016	0216-36	N5S
2/4/2016	0216-37	STP
2/2/2016	0216-95	E7D
2/2/2016	0216-96	E6D
2/2/2016	0216-97	E6D Split to Edge
2/3/2016	0216-98	E5D
2/3/2016	0216-99	E5D Split to Edge
2/3/2016	0216-100	E8D
2/3/2016	0216-101	E8D Split to Edge

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 01
Sample ID: DOT
Date: 2/ 1 /16
Weather: Sunny 40°F

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:

DTW
TOS
Intake
BOS
Total Depth

Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

pursed for 10 minutes

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1120		8.39	661	1.91	6.91	-32	7.45	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Polachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- D2
Sample ID: S7
Date: 2/ 1 /16
Weather: Sunny 45°F

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristatic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) ~~N~~
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Water is naturally effervescent

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1150		6.83	702	4.39	7.51	128	6.67	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gunter
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- D2
Sample ID: ~~[illegible]~~ DUP
Date: 2/ 1 /16
Weather: Sunny 45°F

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1220		9.93	824	1.78	7.31	-42	7.26	

Notes / Observations (color, odor, anomalies, etc):

purged well for 10 min.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Carter
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 04
Sample ID: WR1
Date: 2/ 1 /16
Weather: Sunny

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1230		9.05	839	3.85	7.31	135	4.75	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gerber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216-05
Sample ID: ~~MW~~-N34
Date: 2/ 1 /16
Weather: Sunny

150.87 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 30
Flow 225 mL/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1356		11.70	638	6.60	6.97	154	3.96	
1401		12.28	633	5.95	6.65	154	2.92	
1404	151.02	12.05	626	4.95	6.72	148		
1407		11.94	632	3.46	6.87	136	4.51	
1410		11.76	635	2.06	7.12	121	2.01	
1413	151.01	11.74	639	1.43	7.27	77		
1416		11.65	630	1.08	7.38	35		
1419		11.63	634	0.92	7.42	10	3.90	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palechuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 06
Sample ID: WID
Date: 2/ 1 /16
Weather: Sunny 40°F

134.94 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
MP-20
(YSI)

Refill: 8
Discharge: 7
Pressure: 90
Flow: 250 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N) *
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1435	Begin purge							
1440		10.11	972	6.71	5.43	257.3		
1445		10.21	977	5.99	5.49	242.4		
1448		10.24	973	2.80	5.67	135.2		
1451		10.24	970	1.84	5.78	64.7	3.18	
1454		10.25	967	1.01	5.89	12.3		
1457		10.25	967	0.84	5.93	-1.9		
1500		10.24	968	0.71	5.96*	-23.7	1.33	

Notes / Observations (color, odor, anomalies, etc):

* would be challenging to unlock flush mount lid very close to ground

* pH pen 7.69 final reading

LWS = 104.66

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corsaro
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 07
Sample ID: MW- N35
Date: 2/ 1 /16
Weather: Sunny

140.74 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 9
Discharge 6
Pressure 30
Flow 259 ml/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N Locked? Y (N) Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1503		11.65	1094	4.05	7.02	-34	1.84	
1509		11.64	1078	5.06	7.02	0	3.30	
1511		11.59	1072	5.13	7.03	9		
1514	140.70	11.60	1070	5.21	7.03	11	3.87	
1517		11.61	1066	5.24	7.03	23		
1520		11.63	1059	5.25	7.03	30		
1523	140.79	11.61	1065	5.23	7.03	31	2.89	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 08
Sample ID: GIS
Date: 2/ 1 /16
Weather:

90.61 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
MP-20 (YSI)
Refill 8 One Well Volume (liters) Other :
Discharge 7 Flow Setting :
Pressure 60 Total Volume Bailed (liters)
Flow 250 ml/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1545	begin purge							
1550	✓	11.73	1262	4.33	5.58	57.9		
1555		11.77	1339	3.27	5.59	74.2		
1559		11.70	1354	3.26	5.60	79.2		
1601		11.73	1363	3.19	5.60	83.4		
1604		11.81	1367	3.14	5.61	87.4		
1607	91.00	11.87	1368	3.14	5.61	91.6		
1610		11.83	1369	3.08	5.61 *	96.5	1.57	

Notes / Observations (color, odor, anomalies, etc):

Dup taken at
0216 - 10
@ 1630

* pH pen 6.64

Unknown source black cap on well head casing

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gratzer
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216-09
Sample ID: MW-NID
Date: 2/1/16
Weather: Cloudy

136.95 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 8/7
Discharge:
Pressure: 35
Flow: 225 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1605		9.53	1432	7.75	7.56	85	4.07	
1610	136.95	11.39	1498	7.00	7.33	88		
1613		11.48	1500	4.63	7.18	88	4.94	
1616	136.96	11.50	1500	2.11	7.09	-9		
1619		11.47	1500	1.22	7.08	-37	3.30	
1622		11.45	1500	0.83	7.08	-44		
1625		11.42	1500	0.67	7.08	-50	3.12	

Notes / Observations (color, odor, anomalies, etc):
Hybernating Wasps in Top Cap.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 11
Sample ID: MW-E4D
Date: 2/ 2 /16
Weather: P. Cloudy

153.94 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill: ~~10~~ 8
Discharge: ~~12~~ 12
Pressure: 100
Flow: 125 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1024		9.10	572	5.73	7.56	-23	10.68	
1029		9.71	560	2.87	7.66	-126		
1032	153.99	9.84	555	2.44	7.73	-143	7.22	
1035		9.97	552	1.64	7.86	-163		
1038	153.99	9.99	553	1.28	7.94	-175	4.28	
1041		10.04	549	1.05	7.99	-182		
1044		10.23	553	0.91	8.00	-187	4.50	

Notes / Observations (color, odor, anomalies, etc):

Low Flow
purge Line 15min.
before Readings

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachyk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 12
Sample ID: E25
Date: 2/ 2 /16
Weather: Sunny 40°F

133.22 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: CONTROL SETTINGS:
MP-20
YSI
Refill 8
Discharge 7
Pressure 80
Flow 250 mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N Locked? Y (N) Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
955	begin	pwsc						
1000		11.96	1331	1.36	5.54	94.2		
1005		11.97	1331	0.42	-	82.7		
1008		11.98	1331	0.34		80.7		
1011		12.00	1331	0.33		80.0		
1014		12.01	1332	0.32		78.5		
1017		12.00	1332	0.27		77.9		
1020		12.00	1332	0.26		77.7	1.44	

Notes / Observations (color, odor, anomalies, etc):
* Naturally effervescent

E2D needs sample tubing.

YSI	pH pen
5.57	6.80
5.58	
5.59	7.14
	7.07
5.60	6.97

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 13
Sample ID: MW-EHS
Date: 2/2/16
Weather: Sunny

141.69 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 80
Flow: 225 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1135		11.10	825	7.32	7.55	-57	4.32	
1140	141.82	10.61	1078	3.70	7.18	-2		
1143		10.52	1103	2.93	7.13	17	2.47	
1146	141.81	10.49	1116	2.51	7.10	27		
1149		10.46	1142	2.23	7.09	38	6.45	
1152		10.43	1151	2.05	7.09	43		
1155	141.84	10.43	1159	1.92	7.09	48	4.16	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Polachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 14
Sample ID: E2D
Date: 2/ 2 /16
Weather: Sunny 35°F

148.64 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 105
Discharge 95
Pressure 100
Flow 100 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1103		11.24	1559	5.97		97.2		
1108		11.52	1750	3.50		91.2		
1111		11.48	1765	2.64		90.0		
1114		11.50	1768	2.20		89.1		
1117		11.58	1767	1.55		87.8		
1120		11.70	1764	1.26		87.0		
1123		11.70	1761	1.06		86.1	1.09	

Notes / Observations (color, odor, anomalies, etc):

YSI pH	pH pen
5.63	7.36
5.59	7.03
5.57	
5.54	6.90
5.53	6.91
5.52	6.91

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 15
Sample ID: MW - NE/D
Date: 2/ 2 /16
Weather: Sunny

158.50 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 9
Discharge: 11
Pressure: 100
Flow: 150 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y / N
Locked? Y / N
Water in Protector? Y / N
Damage? Y / N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1322		10.57	694	6.53	7.22	60	7.32	
1327		11.31	694	5.38	7.09	81		
1330		11.34	695	4.16	7.15	81	6.65	
1333	158.73	11.47	680	3.41	7.21	78		
1336		11.49	671	2.69	7.28	72	9.70	
1339		11.48	673	2.43	7.31	65		
1342	158.68	11.40	673	2.12	7.35	57		
1345		11.39	676	1.90	7.38	52	14.79	
1348		11.46	674	1.71	7.41	42	6.41	
~~1351~~								

Notes / Observations (color, odor, anomalies, etc):

- Cap Not attached to hinge. Still fits well over monument
- Air In line @ R(9) D(11) @ 100 psi
  - multiple bubbles
  - Low Flow

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 16
Sample ID: S105
Date: 2/ 2 /16
Weather: Sunny

136.14 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 8
Discharge 7
Pressure 80
Flow

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1230		16.89	1211	6.43		100.00		
1235		13.49	1423	2.63		93.1		
1238		13.41	1428	1.22		90.7		
1241		13.40	1426	0.81		89.4		
1244		13.43	1425	0.61		87.7		
1247		13.38	1426	0.51		86.9		
1250	136.20	13.47	1424	0.45		86.2	1.24	

Notes / Observations (color, odor, anomalies, etc):

YSI pH	pH pen
5.92	7.46
5.70	
5.66	~~7.16~~ 6.98
5.66	6.99
5.66	6.95
5.65	6.90
5.65	6.87

Split sample collected as 0216-20 @ 1250

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 17
Sample ID: MW-NE1S
Date: 2/ 2 /16
Weather: Cloudy

144.71 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 10
Discharge: 10
Pressure: 35
Flow: 175 mL/min.
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
Bent lid / cover

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1450		12.58	683	9.03	7.63	80	8.61	
1455		11.89	772	5.83	7.21	100		
1458	144.85	11.81	776	5.64	7.19	104	14.34	
1501		11.77	781	5.49	7.20	106		
1504	144.84	11.74	783	5.40	7.20	109	12.81	
1507		11.70	777	5.32	7.20	110	8.86	
1510		11.69	783	5.33	7.20	112	7.92	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 18
Sample ID: EID
Date: 2/ 2 /16
Weather: Partly cloudy

138.30 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: YSI (MP-20)
CONTROL SETTINGS:
Refill: 0
Discharge: 7
Pressure: 30
Flow: 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other :
Flow Setting :

Filtered? Y (N)
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1537		10.45	1387	7.75		29.7		
1542		10.82	1501	7.06		36.2		
1545		11.13	1618	6.37		44.0		
1548		11.19	1630	4.27		49.7		
1551		11.21	1631	2.46		49.7		
1554		11.17	1632	1.72		50.7		
1557	138.78	11.17	1629	1.15		52.1		
1600		11.14	1628	0.95		53.0	1.41	

Notes / Observations (color, odor, anomalies, etc):

YSI pH	pH pen
5.73	
5.77	
5.81	
5.73	
5.69	7.34
5.66	7.17
5.65	7.14
5.65	7.24

0216-22
Split sample taken as ~~0216-22~~ @ 1600

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 19
Sample ID: ~~MW-20~~ SEIS
Date: 2/~~23~~ /16
Weather: Cloudy

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

140.19 DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 70
Flow 250 mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

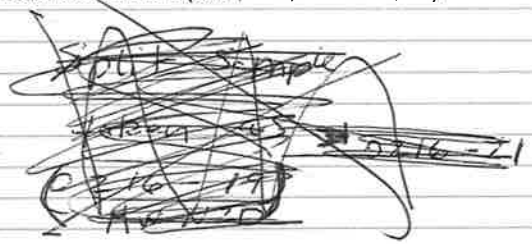
Filtered? (Y) N Locked? (Y) N Water in Protector? (Y) N Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0933		9.72	791	6.20	6.94	199	3.13	
0938		9.71	792	5.36	7.23	184		
0941		9.75	793	5.17	7.26	176	3.94	
0944		9.76	787	4.93	7.27	173		
0947	140.19	9.77	794	4.67	7.28	171	5.01	
0950		9.81	791	4.54	7.29	168		
0953		9.80	796	4.37	7.30	166	3.40	

Notes / Observations (color, odor, anomalies, etc):



Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 21
Sample ID: SE1D
Date: 2/ 3 /16
Weather: Cloudy

140.33 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
MP-20 / YSI
Refill: 8
Discharge: 7
Pressure: 95
Flow: 250 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
935		9.29	915	7.13		114.2		
940		9.56	927	3.34		111.6		
943		9.64	924	1.78		86.0		
946		9.71	924	1.23		72.9		
949		9.69	924	1.00		66.9		
952		9.73	925	0.79		58.70		
955	141.20	9.74	925	0.65		50.60	3.01	

Notes / Observations (color, odor, anomalies, etc):

pH YSI	pH pen
5.66	
5.60	7.54
5.68	7.75
5.75	7.82
5.78	7.89
5.81	7.87
5.83	7.87

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 23
Sample ID: SI15
Date: 2/3/16
Weather: Cloudy

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

135.04 DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 70
Flow

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1128		9.79	891	0.78		-10	1.37	
1133		9.48	893	0.67		-9.1		
1136		9.30	895	0.56		-5.5		
1139		8.86	898	0.51		-2.5	1.25	
1142		8.21	895	0.64		-0.8		
1145		8.14	896	0.62		-0.4		
1148		8.14	892	0.50		2	1.09	

Notes / Observations (color, odor, anomalies, etc):

YSI pH	PH Pen
5.88	
5.93	8.07
5.92	
5.89	
5.83	
5.83	
5.81	8.07

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: _____ _____
Printed Name Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 24
Sample ID: EIS
Date: 2/ 2 /16
Weather: Partly cloudy

138.59 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
1 ft water = 0.62L 1L = 0.24 gallons

Refill 13
Discharge 7
Pressure 30
Flow 250 mL/min.
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1635		10.76	1131	7.43		71.2		
1640		11.06	1136	5.78		72.1		
1643		11.02	1135	5.57		72.9		
1646		10.96	1139	5.51		74.0		
1649		10.96	1139	5.48		74.7		
1652	138.67	10.95	1136	5.45		75.7		
1655		10.90	1135	5.62		76.7	1.27	

Notes / Observations (color, odor, anomalies, etc):

# YSI	pH pen
5.92	
5.65	
5.63	
5.51	7.14
5.63	7.11
5.62	7.07
5.40	7.05

Herbacides 8151 Collected Here

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 25
Sample ID: SLD
Date: 2/ 3 /16
Weather: Lt. Rain / Cldy

146.91 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1236		9.09	906	7.08		64.5		
1241		9.72	908	2.54		34.5		
1244		9.70	909	2.13		26.9		
1247		9.73	902	1.57		16.7		
1250	149.30	9.74	904	1.12		5.4		
possibly affected by		SLLS						
1253		9.69	888	1.01		-7.8		
~~1253~~		~~9.68~~						
1256		9.61	910	0.89		-15.3	3.50	

Notes / Observations (color, odor, anomalies, etc):
* Needs sample tubing

pH YSI	pH pen
5.95	
5.93	
5.94	7.92
5.95	7.98
5.97	8.05
5.98	8.00
5.99	7.98

Air is getting into sample tubing below top casing. Causing bubbles in sample tubing & flow cell.
Flow is Sporadic

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Polechuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 26
Sample ID: W25
Date: 2/3/16
Weather: Cloudy

148.93 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 30
Flow: 200 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1352		9.65	908	7.30		72.3		
1357		9.70	914	5.63		74.3		
1400		9.56	914	5.36		75.5		
1403		9.35	915	~~5.66~~ 5.32		76.6		
1406		9.54	913	5.38		77.5		
1409	148.90	9.67	914	5.32		78.5		
1412		9.68	914	5.28		79.3	1.15	

Notes / Observations (color, odor, anomalies, etc):

pH YSI	pH pen
5.71	
5.67	
5.67	
5.66	7.47
5.66	7.39
5.67	7.37
5.67	7.37

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 27
Sample ID: E3D
Date: 2/ 3 /16
Weather: Cloudy

151.18 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 95 | Total Volume Bailed (liters)
Flow 225 mL/min

Filtered? Y N Locked? Y N Water in Protector? Y N Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1408		9.28	708	7.25	7.61	42	5.88	
1413		10.21	702	4.60	7.48	45		
1416	151.22	10.16	706	3.37	7.47	43	4.99	
1419		10.13	709	2.65	7.49	37		
1422		10.00	707	2.21	7.53	23	4.43	
1425		9.95	711	1.92	7.56	9		
1428		9.88	710	1.67	7.58	-9	5.92	
1431		9.83	711	1.56	7.59	-15	9.81	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 28
Sample ID: NSD
Date: 2/3/16
Weather: cloudy

150.03 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 13 One Well Volume (liters) Other:
Discharge 17 Flow Setting:
Pressure 100 Total Volume Bailed (liters)
Flow ~100 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? (Y) N Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1545		8.75	1155	7.80		93.6		
~~1550~~		~~9.21~~						
1550		9.21	1240	6.46		94.2		
1553		9.24	1344	4.54		94.2		
1556		9.28	1377	3.00		93.8		
1559		9.34	1403	2.00		92.3		
1602		9.33	1415	1.57		90.9		
1605		9.36	1426	1.37		89.1	0.94	

Notes / Observations (color, odor, anomalies, etc):

pH YSI pH pen
5.85
5.79
5.73 7.66
5.70 7.58
5.69 7.56
5.70 7.56
5.70 7.55

Edge split taken as 0216-30 @ 1605
Edge duplicate + MS/MSD taken as well

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Cornelsen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 29
Sample ID: N1SR
Date: 2/ 3 /16
Weather: Cloudy

90.53 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 11
Discharge: 9
Pressure: 50
Flow: 225mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly: 500 ml HNO3 x2; 125 ml NaOH
500 ml Poly: 500 ml H2SO4 x2
250 ml Poly: 40 ml VOA x3 x6
125 ml Poly: 1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1510		11.20	408	4.22	6.63	124	14.53	
1515		11.10	402	2.63	6.31	130	6.60	
1518		11.23	399	2.45	6.28	131		
1521		11.25	404	2.25	6.28	131	5.70	
1524		11.25	403	2.08	6.27	132		
1527		11.29	404	1.43	6.25	133		
1530		11.31	405	1.91	6.25	134	5.58	

Notes / Observations (color, odor, anomalies, etc):
Air in line
checked connections
Bubbles occur during Refill

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 31
Sample ID: N2S
Date: ~~2/3/16~~ 2/4/16
Weather: Cloudy

137.75 DTW
~~137.77~~
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 10
Discharge 5
Pressure 80
Flow 70 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? ~~(Y)~~ N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0833		10.91	1500	6.51	6.82	202	9.40	
0838		11.38	1490	5.54	6.82	192		
0841		11.46	1500	5.23	6.77	188	8.35	
844		11.44	1500	5.24	6.74	185		
847		11.40	1500	5.22	6.73	183	5.88	
850		11.39	1500	5.21	6.73	182		
853		11.36	1500	5.18	6.73	181	7.46	

Notes / Observations (color, odor, anomalies, etc):

~~DTW~~ DTW interrupted may of hit pump @ 137.75'

Split sample for edge taken as 0216-32 @ ~~0835~~ 0853

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Paladino
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 33
Sample ID: N2D
Date: 2/ 4 /16
Weather: Cloudy

14.94 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: ~~Dedicated~~ | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 80
Flow: 250mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1013		11.72	1142	1.91	6.99	157	7.63	
1018		12.03	1126	0.94	6.91	151		
1021		12.05	1133	0.86	6.91	146	4.61	
1024		12.12	1136	0.78	6.90	143		
1027		12.16	1145	0.69	6.90	139	4.79	
1030		12.13	1134	0.63	6.90	137		
1033		12.12	1141	0.58	6.90	132		

Notes / Observations (color, odor, anomalies, etc):

Split sample for edge taken as 0216-34 @ 1033

Duplicate Sample taken as 0216-35 @ 1053

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 36
Sample ID: N5S
Date: 2/ 4 /16
Weather: Cloudy

150.63 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill 15
Discharge 15
Pressure 30
Flow 200 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y N
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1130		10.09	712	2.51	7.24	164	5.30	
1135		10.18	709	0.97	7.22	161		
1138		10.19	711	0.84	7.22	159	4.36	
1141		10.19	713	0.77	7.22	157		
1144		10.20	711	0.72	7.22	155	3.06	
1147	150.63	10.21	709	0.69	7.21	153		
1150		10.21	711	0.65	7.22	152	3.47	

Notes / Observations (color, odor, anomalies, etc):

Purged Line for 10min before Readings

N-4S
Water Level @ 1233 124.48 ft

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Palachuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 37
Sample ID: STP
Date: 2/ 4 /16
Weather: Cloudy / lt Rain

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1310		9.88	511	2.68	8.34	-77	66	

Notes / Observations (color, odor, anomalies, etc):

Purge 10 minutes

Turb. increased toward end of sampling

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Polaczuk
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 95
Sample ID: ETD
Date: 2/ 2 /16
Weather: partly cloudy

146.56 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? Y (N)
* Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1346		12.07	1058	5.76		104.2		
1351		13.21	1224	3.58		92.0		
1354	146.59	13.49	1304	2.41		59.7		
1357		13.63	1344	1.70		41.1	1.06	
1400		13.65	1472	1.37		35.7		
1403	146.59	13.78	1539	1.18		34.1		
1406		13.97	1558	1.01		33.4	1.27	

Notes / Observations (color, odor, anomalies, etc):
sample is effervescent
* flush mount filled w/ water upon arrival

YSI pH	pH pen
5.83	
5.76	
5.67	
5.61	6.86
5.57	6.80
5.55	6.71

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corbett
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 96
Sample ID: EGD
Date: 2/ 2 /16
Weather: partly cloudy



148.65 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10.5
Discharge 4.5
Pressure 100
Flow 100 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1441		13.42	723	5.30		41.3		
1446		14.02	696	1.39		-28.4		
1449		13.64	696	0.99		-45.8		
1452		13.79	695	0.73		-57.1		
1455		13.77	695	0.66		-60.9		
1458		13.74	695	0.60		-64.0		
1501		13.70	695	0.56		-66.1	1.27	

Notes / Observations (color, odor, anomalies, etc):

YSI pH	pH pen
6.35	
6.25	
6.23	
6.20	7.84
6.19	7.80
6.19	7.77
6.18	7.78

split sample sent to edge as 0216-97 at 1501

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 98
Sample ID: ESD
Date: 2/ 3 /16
Weather: Cloudy

145.53 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill: 8 One Well Volume (liters): Other:
Discharge: 12 Flow Setting:
Pressure: 100 Total Volume Bailed (liters):
Flow: 175mL/min

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1230		11.23	915	4.73	7.38	38	5.31	
1235		11.07	969	1.40	7.28	-94		
1238		11.07	987	0.90	7.27	-110	2.99	
1241	145.60	11.08	932	0.65	7.27	-114		
1244		11.08	978	0.55	7.27	-119	5.26	
1247		11.05	976	0.50	7.28	-121		
1250		11.06	970	0.45	7.28	-123	5.40	

Notes / Observations (color, odor, anomalies, etc):

0216-99 Edge Sample taken from ESD. (Split sample)

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Polachuk
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 0216- 100
Sample ID: EBD
Date: 2/ 3 /16
Weather: Overcast

149.28 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9.5
Discharge 10.5
Pressure 100
Flow 150 mL/min.

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1318		9.62	555	7.42	7.55	36	7.27	
1323	149.61	9.74	543	3.30	7.35	-36		
1326		9.82	543	1.96	7.35	-44	10.51	
1329		9.87	543	1.29	7.37	-51		
1332	149.62	9.87	538	0.93	7.41	-73	7.14	
1335		9.92	539	0.80	7.43	-96		
1338		9.92	541	0.73	7.45	-106	9.63	

Notes / Observations (color, odor, anomalies, etc):
0216- 101 Edge Sample Sampled from EBD (split sample)

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Stephen Polachuk
Printed Name

Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	12/1/16					
Time	1340					
Weather (sky or precip, temp)	Sunny 40°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1433	5.20	6.30			
Post Cal Reading	1413	4.01	7.00	7.81	792, 101, 20.6, 0.91	
Descrepancy	No					pH 4 read at 5.20
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/1/2016					
Time	1015					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1424	3.57	6.87	8.26	1008, 9.65, 0.00	
Post Cal Reading	1413	4.01	7.00			
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SDP					
Instrument Type, ID		(MP20) / YSI 556			(MicoTPW) / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/2/16					
Time	0845					
Weather (sky or precip, temp)	P. Cldy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1403	4.06	6.88	9.43	1091, 8.47, 0.00	
Post Cal Reading	1413	4.01	7.00			
Descrepancy	NO					
Calib. Successful?	Yes					
Calibration by	SDP					
Instrument Type, ID	(MP20) / YSI 556				MicoTPW / HACH2000	
Calibration Location	Island County					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/2/16					
Time	0900					
Weather (sky or precip, temp)	P. Cldy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	4.01 7.00
Pre-Cal Reading	1411	3.94	5.50			5.73 5.34
Post Cal Reading	1413	4.01		9.53	800, 99.8, 20.9, 1.63	
Descrepancy	pH is off					
Calib. Successful?	Not for pH					
Calibration by	SDP					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/3/16					
Time	0825					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 (800, 100, 20, <0.1)	
Pre-Cal Reading	1415	4.30	6.53*	7.11	783, 100, 23.5,	0.95
Post Cal Reading	1413	4.01	7.00			
Descrepancy	pH *					
Calib. Successful?	yes					
Calibration by	SP					
Instrument Type, ID	MP20 / (YSI 556)				MicoTPW / ~~HACH2000~~	
Calibration Location	Island CO.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/3/16					
Time	0820					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1500	4.17	7.11	7.53	1005, 8.17, 0.00	
Post Cal Reading	1413	4.01	7.00			
Descrepancy	NO					
Calib. Successful?	Yes					
Calibration by	SP					
Instrument Type, ID	(MP20) / YSI 556				(MicoTPW / HACH2000)	
Calibration Location	Island Co					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/4/16					
Time	0800					
Weather (sky or precip, temp)	Overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1407	3.91	7.09	9.46	891, 7.38, 0.00	
Post Cal Reading	1413	4.01	7.00			
Descrepancy	NO					
Calib. Successful?	Yes					
Calibration by	SDP					
Instrument Type, ID	(MP20) / YSI 556				(MicoTPW / ~~HACH~~2000	
Calibration Location	Island Co.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.08	**TASK NO.**	1, 2, 3	**DATE**	02/03/16	**PROJECT NAME**	Island County
TEMP	43	**BARO**	29.89"	**WIND**	13 SE	**WEATHER**	Overcast

SCS-FS LABOR	HOURS	OT		HOURS	OT
00001	3.5		00003	3.5	
00002	3.5				10.5 total
EQUIP, SVCS, MTLS, MLG	**QTY**	**UNITS**		**QTY**	**UNITS**
Service Truck	1	$18.50 Hourly	SCS Field Services	10.5	$194.50
Gem - 2000	1	$185.00 Daily	SCS Field Services	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)						
MODEL	(S/N) (RMA #)	CH4 (%-VOL)	CH4 (%-LEL)	02 (%-VOL)	Hexane (PPM)	
Gem 2 Nav	11614	15.0	15.0	20.9		
Gem 2 Nav	11614	50.0	35.0	20.9		
Time	**Device**	**Flow**	**Blower Hours.**	**Amps**	**Condensate**	
0922 0927	BL 1 BL 2 FL	0.2" 1.7"	70025.03 93688.90	3.7 3.9	92.13"	

SUMMARY
0400 Left Tacoma and traveled to Island County.
0720 Arrived onsite and calibrated my gem.
0725 Began the monitoring of the perimeter probes along Highway 20.
0845 Began the monitoring of GP-30.
0920 Began the monitoring of the BFS.
0940 Began the monitoring of the wellfield.
1015 Complete the monitoring of the wellfield.
1030 Upload readings and then email to Eric for recommended adjustments.
1115 Pack up equipment and leave the site.
1430 Arrived home and began working on daily paperwork.

PREPARED BY: Brad Beach ACCEPTED BY: _____

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.08	**TASK NO.**	1, 2, 3	**DATE**	02/04/16	**PROJECT NAME**	Island County
TEMP	45	**BARO**	30.07"	**WIND**	6 SE	**WEATHER**	Partly Cloudy

SCS-FS LABOR	HOURS	OT		HOURS	OT
00001	3.5		00003	3.5	
00002	3.5				10.5 total
EQUIP, SVCS, MTLS, MLG	**QTY**	**UNITS**		**QTY**	**UNITS**
Service Truck	1	$18.50 Hourly	SCS Field Services	10.5	$194.50
Gem - 2000	1	$185.00 Daily	SCS Field Services	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	CH4 (%-LEL)	02 (%-VOL)	Hexane (PPM)	
MODEL	(S/N) (RMA #)					
Gem 2 Nav	11614	15.0	15.0	20.9		
Gem 2 Nav	11614	50.0	35.0	20.9		

Time	Device	Flow	Blower Hours.	Amps	Condensate	
0922 0927	BL 1 BL 2 FL				92.13"	

SUMMARY
0400 Left Tacoma and traveled to Island County.
0730 Arrived onsite and calibrated my gem.
0745 Began the monitoring of the remaining perimeter probes and structures.
0940 Began to make the recommended adjustments to the wellfield.
1000 Inspect the pilot and thermocouple situation inside of the BFS.
1115 Pack up equipment and leave for the day.
1430 Arrived home and began working on daily paperwork.
*Animal shelter is unoccupied and was not monitored per Brian Weaver. Buildings existence is in limbo right now.
*I am unable to move thermo up or down due to design, will need a longer thermos that we can adjust.
*Pilot system is working correctly, but could use a rebuild to the entire pilot system.

PREPARED BY: Brad Beach ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 02/03/16 Site Name: IC

Technician: BB Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 13 MPH Wind Direction: SE Barometric Pressure: 29.89"Hg

Air Temperature: 43 ^{o}F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 11614

Calibration Gas: %CH4 50.0 %CO2 35.0 %O2 0.0

Time	CH4	CO2	O2
0915	50.0	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1100	49.8	34.9	21.1

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 02/03/16 Site Name: IC

Technician: BB Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 13 MPH Wind Direction: SE Barometric Pressure: 29.89"Hg

Air Temperature: 43 ^{o}F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 11614

Calibration Gas: %CH4 15.0 %CO2 15.0 %O2 0.0

Time	CH4	CO2	O2
0720	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0915	14.9	14.9	210

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 02/04/16 Site Name: IC

Technician: BB Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 6 MPH Wind Direction: SE Barometric Pressure: 30.02"Hg

Air Temperature: 45 °F General Weather Conditions: Partly Cloudy

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 11614

Calibration Gas: %CH4 50.0 %CO2 35.0 %O2 0.0

Time	CH4	CO2	O2
0935	50.0	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1110	50.0	34.9	21.0

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 02/04/16 Site Name: IC

Technician: BB Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 6 MPH Wind Direction: SE Barometric Pressure: 30.02"Hg

Air Temperature: 45 ^{o}F General Weather Conditions: Partly Cloudy

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 11614

Calibration Gas: %CH4 15.0 %CO2 15.0 %O2 0.0

Time	CH4	CO2	O2
0730	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0935	14.8	14.9	21.1

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

Environmental Consultants
and Contractors

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SCS ENGINEERS

May 10, 2016

File No. 04207033.09

Subject: **Second Quarter 2016 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: April 25-28, 2016
Personell: Sam Graber

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells C1S and N3D.
- Water level elevations were measured at monitoring wells W1S on April 25, 2016, and N4S, on April 28, 2016.
- Meters were calibrated daily prior to sampling.
- pH probe on YSI multimeter tool malfunctioned, field staff used MP-20 to determine pH for wells that YSI malfunctioned at. Dissolved Oxygen probe on MP-20 malfunctioned on April 25th.
- Split samples were collected for VOC analysis at E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
4/26/2016	0416-01	DOT
4/25/2016	0416-02	E3D
4/26/2016	0416-03	E4S
4/26/2016	0416-04	E4D
4/27/2016	0416-05	STP
4/27/2016	0416-06	NE1S
4/27/2016	0416-07	NE1D
4/28/2016	0416-08	N5D
4/28/2016	0416-09	N5S
4/26/2016	0416-10	S11D
4/26/2016	0416-11	S11S
4/28/2016	0416-12	S10S
4/25/2016	0416-13	W2S
4/25/2016	0416-14	W1D
4/25/2016	0416-15	N1D
4/25/2016	0416-16	N1SR
4/28/2016	0416-17	N2D
4/28/2016	0416-18	N2S

Date Sampled	Sample Number	Well Number
4/26/2016	0416-19	C1S
4/25/2016	0416-20	N3D
4/25/2016	0416-21	N3S
4/26/2016	0416-22	E2D
4/26/2016	0416-23	E2S
4/26/2016	0416-24	S7
4/28/2016	0416-25	E1D
4/27/2016	0416-26	E1S
4/27/2016	0416-27	SE1D
4/27/2016	0416-28	SE1S
4/27/2016	0416-29	DNR
4/25/2016	0416-30	WR1
4/26/2016	0416-31	C1S (Duplicate)
4/25/2016	0416-32	N3D (Duplicate)
4/28/2016	0416-50	E5D
4/28/2016	0416-51	E6D
4/28/2016	0416-52	E8D
4/28/2016	0416-53	N5D
4/28/2016	0416-54	S10S
4/28/2016	0416-55	N2D
4/28/2016	0416-56	N2S
4/28/2016	0416-57	E1D
4/28/2016	0416-95	E5D
4/28/2016	0416-96	E6D
4/27/2016	0416-97	E7D
4/28/2016	0416-98	E8D

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island County Landfill | DTW | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: DOT | TOS | MP-20 | Refill | One Well Volume (liters) | Other:

Sample ID: 0416 - 01 | Intake | (YSI) | Discharge | Flow Setting:

Date: 4/26/16 | BOS | Pressure | Total Volume Bailed (liters)

Weather: Sunny | Total Depth | Flow

Filtered? (Y) N | Locked? Y (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1500		11.96	683	1.09	9.40 *	6.6	1.72	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: E30
Sample ID: 0416-02
Date: 4/25/16
Weather: Sunny

151.31 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI
CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 95
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1544		17.66	706	40.98	7.99	31		
1549		12.89	735	44.36	7.97	37		
1552		12.54	740	44.73	7.87	43		
1555		12.17	746	44.79	7.78	48		
1558		12.11	747	43.50	7.70	52		
1601		11.97	740	39.44	7.61	55		
1604		11.87	742	37.11	7.63	2	1.44	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corabor
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: E45
Sample ID: 0416 - 03
Date: 4/26/16
Weather: Partly cloudy

141.49 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 35
Flow 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1240		11.13	920	6.69	8.37	89.6		
1245		10.76	1116	2.86	8.09	87.7		
1248		10.78	1136	2.31	8.09	84.3		
1251		10.74	1152	1.95	8.10	82.9		
1254		10.76	1168	1.70	8.10	81.2		
1257		10.74	1177	1.57	8.09	80.1		
1300		10.74	1181	1.49	8.09	79.3	1.54	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: EW1
Sample ID: 0416 - 04
Date: 4/26/16
Weather: partly cloudy

153.90 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1332		13.17	449	8.57	9.29	36.7		
1337		12.29	509	7.01	8.70	30.4		
1340		11.44	591	6.36	8.49	70.2		
1343		11.45	588	4.02	8.59	25.5		
1346		11.23	576	2.62	8.76	-13.9		
1349		11.28	567	1.87	8.88	-28.1		
1352		11.21	562	1.53	8.98	-35.1		
1355		11.09	559	1.33	9.05	-39.1	2.89	
					*			

Notes / Observations (color, odor, anomalies, etc):

Stench in air while filling bottles.

Sewage plant being pumped out?

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: STP
Sample ID: 0416-05
Date: 4/27/16
Weather: Cloudy

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:

DTW
TOS
Intake
BOS
Total Depth

Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1505		12.27	579	1.52	8.64	-51.4	23.1	

Notes / Observations (color, odor, anomalies, etc):

sample was slightly grey.

odor from water treatment plant in air while sampling.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: NE15
Sample ID: 0416-06
Date: 4/27/16
Weather: Partly cloudy

144.66 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 10
Discharge: 10
Pressure: 30
Flow: 150 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
- 1000 ml Poly
- 500 ml Poly
- 250 ml Poly
- 125 ml Poly
- 500 ml HNO3 x2
- 500 ml H2SO4 x2
- 40 ml VOA x3 x6
- 1000 ml Amber
- 125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
925		12.31	571	7.13	6.05	104.7		
930		12.66	709	6.07	6.10	98.8		
933		12.55	757	5.63	6.07	94.5		
936		12.48	776	5.42	6.08	91.9		
939		12.48	782	5.29	6.13	89.6		
942		12.60	782	5.17	6.13	88.7		
945		12.79	783	5.11	6.18	87.3	1.54	

Notes / Observations (color, odor, anomalies, etc):
MP-20 Final pH = 6.70

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County Landfill | DTW: 158.44 | Meter: CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: NEID 07 | TOS: | MP-20 | Refill: 9 | One Well Volume (liters): | Other:

Sample ID: 0416-07 | Intake: | YSI | Discharge: 11 | Flow Setting:

Date: 4/27/16 | BOS: | Pressure: 100 | Total Volume Bailed (liters):

Weather: partly cloudy | Total Depth: | Flow: 80 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1053		15.00	676	7.80	6.47	46.9		
1058		14.14	690	6.08	6.20	94.0		
1101		14.29	691	5.78	6.25	91.3		
1104		14.01	691	5.23	6.35	88.9		
1107		13.96	690	4.71	6.40	87.5		
1110		13.52	682	3.39	6.47	84.6		
1113		13.55	679	2.73	6.54	82.3		
1116		13.50	675	2.32	6.62	80.1	3.97	

Notes / Observations (color, odor, anomalies, etc):

→ Final pH w/ MP-20: 7.25

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corcoran
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: N5D
Sample ID: 0416-03
Date: 4/29/16
Weather: Sunny

150.12 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 15
Discharge 15
Pressure 100
Flow 100 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1555		11.55	1197	7.58	6.26	96.3		
1600		11.20	1220	6.19	5.99	98.9		
1603		10.82	1379	5.14	5.74	102.2		
1606		10.75	1415	3.91	5.68	101.8		
1609		10.71	1441	2.70	5.64	100.5		
1612		10.71	1458	1.97	5.62	98.7		
1615	150.12	10.73	1467	1.48	5.63	97.0	1.23	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken as 0416-53 @ 1615

Did not wait for D.O. to equilibrate due to time constraint issues.

MP-20 Final pH = 7.41

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County Landfill | DTW: 150.31 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: N55 | TOS: | MP-20 | Refill: 8 | One Well Volume (liters): | Other:

Sample ID: 0416-09 | Intake: | YSI | Discharge: 7 | Flow Setting:

Date: 4/28/16 | BOS: | Pressure: 80 | Total Volume Bailed (liters):

Weather: Cloudy | Total Depth: | Flow: 250 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1722		10.80	773	7.16	6.22	109.9		
1727		10.57	766	5.24	5.85	113.6		
1730		10.62	765	3.35	5.80	112.4		
1733		10.67	765	2.23	5.79	110.9		
1736		10.64	765	1.70	5.78	109.8		
1739		10.61	764	1.45	5.78	109.3		
1742		10.47	764	1.25	5.75	109.9	1.39	

Notes / Observations (color, odor, anomalies, etc):

Final pH on MP-20 = 7.42

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corabar
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: S11D
Sample ID: 0416-10
Date: 4/26/16
Weather: Cloudy

146.90 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 200 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N/A
Damage? Y N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1642		12.63	814	8.22	7.70	80.7		
1647		10.78	943	4.80	7.17	71.6		
1650		10.24	937	2.80	7.07	26.8		
1653		10.23	934	2.30	6.93	18.4		
1656		10.22	933	1.62	7.05	3.7		
1659		10.21	934	1.15	7.10	-10.6		
1702		10.21	935	1.07	7.12	-17.2	3.15	

Notes / Observations (color, odor, anomalies, etc):

air setting in sample tubing below top of well.

Needs sample tubing

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: S11S
Sample ID: 0416-11
Date: 4/26/16
Weather: cloudy

135.04 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 12.5 One Well Volume (liters) Other:
Discharge 7.5 Flow Setting:
Pressure 75 Total Volume Bailed (liters)
Flow 250 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? (Y) N Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1728		10.41	879	7.86	6.98	38.3		
1733		10.17	914	5.00	6.87	-10.5		
1736		10.14	918	1.65	6.97	-26.0		
1739		10.12	920	0.47	7.07	-21.6		
1742		10.12	919	0.28	7.09	-19.1		
1745		10.11	917	0.21	7.09	-15.8		
1748		10.14	916	0.18	7.07	-11.0	1.82	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: S105
Sample ID: 0416 - 12
Date: 4/28/16
Weather:

136.04 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 8
Discharge 7
Pressure 30
Flow 250 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1145		15.30	1351	6.57	7.96	81.6		
1150		14.37	1444	1.00	6.99	37.6		
1153		14.32	1443	0.59	6.95	86.0		
1156		14.32	1444	0.44	6.89	85.3		
1159		14.44	1443	0.41	6.84	85.2		
1202		14.60	1440	0.41	6.79	85.5		
1205		14.60	1440	0.42	6.76	85.8	2.28	

Notes / Observations (color, odor, anomalies, etc):
Edge Split taken as 0416 - 54 @ 1205

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: MW25
Sample ID: 0416-13
Date: 4/25/16
Weather: Sunny

148.30 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 250mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1645		10.92	908	99.99	7.81	88		
1650		10.40	950	45.82	6.81	112		
1653		10.29	970	43.81	6.92	112		
1656		10.23	968	42.97	7.08	110		
1659		10.22	959	43.17	7.13	109		
1702		10.22	957	43.33	7.14	110		
1705		10.21	953	43.53	7.15	110	1.41	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: WID
Sample ID: 0416-14
Date: 4/25/16
Weather: Sunny



DTW: 139.85
TOS:
Intake:
BOS:
Total Depth:

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 75
Flow: 250

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N)
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1438		11.07	969	99.99	7.12	129		
1443		10.71	971	46.94	7.16	123		
1446		10.62	976	41.16	7.46	-45		
1449		10.57	969	37.56	7.74	-101		
1452		10.55	966	36.69	7.82	-117		
1455		10.53	964	36.24	7.84	-127		
1458		10.54	964	35.81	7.84	-132	1.59	

Notes / Observations (color, odor, anomalies, etc):

WIS DTW 109.72

D.O. meter not working.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: MW NID
Sample ID: 0416-15
Date: 4/25/16
Weather: Sunny

136.84 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 85
Flow 250

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1239		13.69	1462	35.59	7.71	80		
1243		11.69	1510	35.00	7.68	82		
1246		12.06	1.510	34.14	7.59	84		
1249		12.26	1510	33.75	7.50	85		
1252		12.33	1.510	31.64	7.34	63		
1255		12.34	1.510	30.14	7.27	-23		
1258		12.37	1.510	30.14	7.25	-34	1.43	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corbett
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: N15R
Sample ID: D416-16
Date: 4/25/16
Weather: Sunny

90.07 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 55
Flow 250

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1332		12.25	425	46.83	6.81	71		
1337	90.30	12.34	420	38.80	6.37	120		
1340		12.43	430	37.69	6.36	128		
1343		12.45	435	38.26	6.35	132		
1346		12.47	436	39.03	6.35	136		
1349		12.51	437	38.70	6.35	136		
1352		12.50	437	38.65	6.35	138	1.49	

Notes / Observations (color, odor, anomalies, etc):
O2 setting in sample tubing @ connection point

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gratzer
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: N2D
Sample ID: 0416 - 17
Date: 4/28/16
Weather: Cloudy

148.68 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: YSI
MP-20

CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 35
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1020		13.12	1232	1.05	6.56	48.2		
1025		12.84	1220	0.70	6.48	82.2		
1028		12.82	1220	0.57	6.50	84.0		
1031		12.80	1222	0.48	6.51	96.1		
1034		12.77	1228	~~0.34~~ 0.42	6.52	86.2		
1037		12.73	1231	0.38	6.54	86.8		
1040		12.77	1232	0.34	6.54	87.1	1.85	

Notes / Observations (color, odor, anomalies, etc):

Split sample to edge taken as 0416 - 55 @ 1040

DTW @ N45

124.45

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County Landfill | Meter: CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: N25 | 137.50 DTW | MP-20 | Refill 10.5 | One Well Volume (liters) | Other:

Sample ID: 0416-13 | TOS | YSI | Discharge 4.3 | Flow Setting:

Date: ~~4/28/16~~ 4/28/16 | Intake | Pressure 90 | Total Volume Bailed (liters)

Weather: Cloudy | BOS | Flow 70 mL/min

Total Depth

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
846		13.23	1436	5.84	5.68	116.0		
851		13.02	1583	5.49	5.70	117.1		
854		12.98	1606	5.24	5.81	113.7		
857		12.95	1610	5.02	5.90	111.2		
900		12.93	1610	4.95	5.92	110.3		
903		12.92	1610	4.84	5.97	108.8		
906	7 140.00 (hit bottom)	12.92	1610	4.78	6.00	108.0	3.11	

Notes / Observations (color, odor, anomalies, etc):

Edge Split taken as 0416-56 @ 906

Takes ≈ 10 minutes to get water to surface.

MP-20, Final pH = 6.66

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corbett
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: CIS
Sample ID: 0416-19
Date: 4/26/16
Weather: Cloudy

90.18 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 60
Flow 300 mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
850		11.65	1355	7.22	5.66	136.9		
855		12.49	1493	3.60	5.61	115.6		
858		12.47	1505	3.57	5.73	108.3		
901		12.47	1510	3.52	5.81	104.5		
904		12.48	1511	~~3.~~ 3.39	5.88	101.7		
907		12.50	1511	3.37	5.94	99.7		
910		12.52	1510	3.34	5.98	98.8	1.36	

Notes / Observations (color, odor, anomalies, etc):

Duplicate as 0416-31 @ 930

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: 113D
Sample ID: 0416-20
Date: 4/25/16
Weather: Sunny

150.30 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 3
Discharge 7
Pressure 30
Flow 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1115		14.01	639	37.12	7.32	64		
1120		13.34	632	21.91	6.73	96		
1123		13.09	628	24.12	6.76	100		
1126		12.93	637	22.23	7.01	91		
1129		12.79	640	21.72	7.21	78		
1132		12.75	642	22.42	7.43	45		
1135		12.65	639	22.75	7.54	-2	2.34	

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 0416-32 @ 1145

D.O. meter not working.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: USS
Sample ID: 0416-21
Date: 4/25/16
Weather: Sunny

140.42 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 13
Discharge: 7
Pressure: 80
Flow: 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1017		12.99	1115	11.16	6.81	-125		
1022		12.50	1107	5.38	7.04	-87	3.12	
1025		12.37	1091	6.64	7.08	-48		
1028		12.35	1083	7.02	7.08	-27		
1031		12.32	1079	7.56	7.09	-13		
1034		12.32	1073	8.62	7.10	6		
1037	140.62	12.31	1074	8.82	7.10	13	1.44	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gardner
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: EZD
Sample ID: 0416 - 22
Date: 4/26/16
Weather: partly cloudy

148.62 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 One Well Volume (liters) Other:
Discharge 10 Flow Setting:
Pressure 100 Total Volume Bailed (liters)
Flow 100 ml/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1122		12.23	1385	8.06	8.16	93.9		
1127		12.16	1500	6.41	7.96	93.7		
1130		12.29	1616	6.17	7.92	93.3		
1133		12.35	1693	6.10	7.89	92.9		
1136		12.31	1741	5.25	7.78	92.8		
1139		12.33	1773	4.20	7.74	91.8		
1142		12.35	1790	3.29	7.71	90.2		
1145		12.35	1795	2.63	7.70	88.5	2.35	
1148		12.40	1795	2.19	7.71	86.8	1.40	

Notes / Observations (color, odor, anomalies, etc):
Did not wait for D.O. to equilibrate due to time constraints

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: E25
Sample ID: 0416 - 23
Date: 4/26/16
Weather: cloudy

138.06 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9.5
Discharge 5.5
Pressure 40
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1007		12.35	1351	5.24	7.29	88.2		
1012		12.21	1364	2.28	7.11	85.8		
1015		12.26	1362	1.43	7.10	83.9		
1018		12.22	1361	1.11	7.09	82.3		
1021		12.18	1360	0.98	7.04	81.9		
1024		12.17	1360	0.80	7.02	81.8		
1027		12.20	1361	0.71	7.06	81.5	3.32	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Carabba
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: 57
Sample ID: 0416 - 24
Date: 4/26/16
Weather: Cloudy

DTW ____
TOS ____
Intake ____
BOS ____
Total Depth ____

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill ____
Discharge ____
Pressure ____
Flow ____

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters) ____
Total Volume Bailed (liters) ____
Other: ____
Flow Setting: ____

Filtered? Y (N)
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1600		13.56	757	4.93	10.25 *	76.9	1.52	
			post cal. pH		7.13			

Notes / Observations (color, odor, anomalies, etc):

re-calibrates pH on YSI

	7.00	4.01
pre	8.80	3.08
post	7.00	4.01

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Project #: 04207033.09
Site: Island County Landfill
Well ID: 0416 - 25
Sample ID: ~~EX~~ EID
Date: 4/28/16
Weather: cloudy

138.22 DTW
TOS
Intake
BOS
Total Depth

Meter: CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
MP-20
YSI

Refill 8
Discharge 7
Pressure 80
Flow 250 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1833		11.15	1464	7.18	5.88	114.5		
1836		11.61	1531	6.83	5.97	114.5		
1841		11.64	1631	6.80	6.01	114.5		
1844		11.63	1654	6.75	6.01	114.5		
1847		11.59	1667	6.21	5.95	114.7		
1850		11.56	1671	4.89	5.86	114.5		
1853		11.54	1674	3.60	5.80	113.2	1.23	
1856		11.51	1675	2.50	5.75	111.3		
1859		11.48	1675	2.05	5.72	111.1	1.18	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken as 0416 - 57 @ 1859

MP-20 Final PH = 7.12

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabar
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: EIS
Sample ID: 0416 - 26
Date: 4/27/16
Weather: Partly Cloudy

138.52 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 13
Discharge 7
Pressure 75
Flow 250mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1648		12.71	1163	7.24	7.50	81.0		
1653		13.09	1158	6.47	7.44	81.0		
1656		11.95	1158	7.09	7.28	81.4		
1659		11.91	1153	6.20	7.01	83.1		
1702		11.73	1144	5.98	6.85	83.8		
1705		11.67	1143	5.92	6.78	84.7		
1708		11.60	1145	5.86	6.70	86.2	1.40	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabar
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County Landfill | DTW: 140.46 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: SEID | TOS: | MP-20 | Refill: 8 | One Well Volume (liters): | Other:

Sample ID: 0416-27 | Intake: | YSI | Discharge: 7 | Flow Setting:

Date: 4/27/16 | BOS: | Pressure: 90 | Total Volume Bailed (liters):

Weather: partly cloudy | Total Depth: | Flow: 300 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1327		10.91	942	7.11	7.52	41.7		
1332		10.69	937	6.80	7.19	43.3		
1335		10.56	938	4.00	7.07	40.0		
1338		10.51	937	2.88	7.11	28.6		
1341		10.51	936	1.84	7.18	55.5		
1344		10.52	936	1.39	7.19	43.2	7.96	
1347		10.56	936	1.05	7.22	36.2	7.54	
1350		10.52	936	0.94	7.21	32.0	8.36	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corubar
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: SEIS
Sample ID: 0416 - 28
Date: 4/27/16
Weather: partly cloudy

140.09 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill ~~X~~ 12.5 One Well Volume (liters) Other:
Discharge ~~X~~ 7.5 Flow Setting:
Pressure ~~80~~ 75 Total Volume Bailed (liters)
Flow 250 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? (Y) N Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1240		10.73	843	6.47	6.90	93.9		
1245		10.93	844	5.98	6.93	91.7		
1248		10.99	845	6.23	6.92	90.9		
1251		10.75	845	6.17	6.90	90.9		
1254		10.79	844	5.77	6.89	90.5		
1257		10.79	844	5.65	6.89	90.2		
1300		10.44	843	5.66	6.87	89.7	1.87	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Carlson
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island County Landfill | DTW | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: DNR | TOS | MP-20 | Refill | One Well Volume (liters) | Other:

Sample ID: 0416 - 29 | Intake | YSI | Discharge | Flow Setting:

Date: 4/27/16 | BOS | Pressure | Total Volume Bailed (liters)

Weather: Partly cloudy | Total Depth | Flow

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1310		11.93	861	1.08	7.45	14.4	1.19	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: W21
Sample ID: 0416-30
Date: 4/25/16
Weather: Sunny



DTW ____
TOS ____
Intake ____
BOS ____
Total Depth ____

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill ____
Discharge ____
Pressure ____
Flow ____

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters) ____
Other : ____
Flow Setting : ____
Total Volume Bailed (liters) ____

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300		11.29	340	99.99	7.34	163	1.64	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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145.61

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: ESD
Sample ID: 0416 - 45
Date: 4/29/16
Weather: sunny

DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill: 8 One Well Volume (liters): Other:
Discharge: 12 Flow Setting:
Pressure: 100 Total Volume Bailed (liters):
Flow: 175 mL/min

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300		14.84	1005	3.06	8.20	90.1		
1305		13.61	1010	4.19	7.73	55.0		
1308		13.31	1025	2.57	7.74	-13.9		
1311		13.21	1044	1.49	7.67	-43.9		
1314	145.66	13.02	1051	1.28	7.38	-48.6		
1317		12.76	1058	1.00	6.97	-56.2		
1320		12.61	1063	0.84	6.80	-61.1	2.01	

Notes / Observations (color, odor, anomalies, etc):

Ecs split 0416 - 50 @ 1320

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corabar
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County Landfill | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E6D | 148.62 DTW | MP-20 | Refill 10 | One Well Volume (liters) | Other:

Sample ID: 0416 - 96 | TOS | YSI | Discharge 10 | Flow Setting:

Date: 4/28/16 | Intake | Pressure 100 | Total Volume Bailed (liters)

Weather: Sunny | BOS | Flow 150 mL/min

Total Depth

Filtered? Y (N) | Locked? Y (N) | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1454	149.00	16.41	680	4.44	6.93	53.8		
1459		16.07	709	1.79	6.59	-9.5		
1502		15.90	707	1.22	6.49	-28.9		
1505		15.85	707	0.97	6.47	-41.1		
1508		15.63	707	0.84	6.44	-47.8		
1511		15.71	706	0.74	6.46	-52.4		
1514		15.56	708	0.69	6.45	-55.9	1.38	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken as 0416 - 51 @ 1514

MP-20 Final PH = 7.62

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: E7D
Sample ID: 0416 - 97
Date: 4/27/16
Weather: Partly cloudy

146.49 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 100 | Total Volume Bailed (liters)
Flow 125 mL/min

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N * Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1550		16.85	1189	5.59	7.83	82.6		
1555		16.32	1372	4.04	7.38	71.8		
1558		16.22	1521	2.35	7.02	41.5		
1601		16.33	1578	1.87	6.90	37.0		
1604		16.36	1638	1.24	6.80	32.4		
1607		16.29	1656	1.10	6.75	30.5		
1610		16.26	1672	0.95	6.71	28.7	1.72	

Notes / Observations (color, odor, anomalies, etc):

* Water filled in flushmount

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County Landfill
Well ID: E8D
Sample ID: 0416 - 98
Date: 4/28/16
Weather: Sunny

149.32 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 9.5
Discharge 10.5
Pressure 100
Flow 150 ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1400		12.18	606	8.30	6.90	47.6		
1405		11.45	581	6.11	6.30	75.6		
1408		11.37	580	4.14	6.19	52.3		
1411		11.29	579	2.78	6.10	56.8		
1414		11.30	580	1.63	6.09	58.8		
1417		11.23	580	1.28	6.09	44.8	5.25	
1420		11.09	581	1.00	6.10	16.6	5.65	
1423		11.17	580	0.84	6.13	-16.7	4.51	

Notes / Observations (color, odor, anomalies, etc):

Edge Split taken as 0416-52 @ 1423

MP-20 Final pH = 7.23

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/25/16					
Time	930					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 (800, 100, 20, <0.1)	
Pre-Cal Reading	1420	4.03	7.03			
Post Cal Reading	1413	4.01	7.00	13.13	782, 102, 20.6, 1.43	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	HVL					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/26/16					
Time	815					
Weather (sky or precip, temp)	cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1414	4.95	7.27			
Post Cal Reading	1413	4.00	7.00	9.3	805, 99.3, 21.6,	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/27/16					
Time	945					
Weather (sky or precip, temp)	partly cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1426	4.46	7.16			
Post Cal Reading	1413	4.01	7.00	7.23	800, 94.1, 21.2, 0.35	
Descrepancy	accepted pH 4 cal. out of range.					
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/28/16					
Time	900					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1395	3.90	6.95			
Post Cal Reading	1413	4.01	7.00	7.61	806, 101, 21.5, 1.61	
Descrepancy	accepted pH 4.01 cal. out of range					
Calib. Successful?	yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.09	**TASK NO.**	1,2,3	**DATE**	5-12-16	**PROJECT NAME**	Island County Landfill
TEMP	60	**BARO**	29.75	**WIND**	2 MPH W	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	3	Project Foreman	11	
			DAILY TOTAL	11	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	11	$203.50
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$203.50

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	13664	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
1413 Blower # 1	70199	3.4	7.17'	SV	-0.5" H2O	100% Open
1413 Blower # 2	94885	3.6		LFG	-2.0" H2O	50% Open

Propane Tank Level	Propane Line PSI
10% Full	12

SUMMARY	0740 SDG travel from Oak Harbor, WA. To Coupeville, WA.
0808 SDG onsite to Monitor the Perimeter Gas Probes and the Extraction Wells. Install Thermal Couplers on Candle Stick Flare.	
0835 SDG Calibrating the Gem – 2000.	
0912 SDG Monitoring the Perimeter Gas Probes.	
1321 SDG Monitoring the Extraction Wells.	
1529 Monitoring Event Complete. SDG installing Thermal Couplers.	
1830 SDG offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 5-10-16 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.09

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: N Barometric Pressure: 29.75"Hg

Air Temperature: 60° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
08:35	49.4	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1545	50.0	34.9	20.8

NOTES:

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
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SCS ENGINEERS

July 29, 2016

File No. 04207033.09

Subject: **Third Quarter 2016 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: July 25-27, 2016
Personnel: Sam Graber & Brian McMullen

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells C1S and N3D.
- Water level elevations were measured at monitoring wells W1S and N4S on July 26, 2016.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at monitoring wells E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
7/26/2016	0716-01	DOT
7/25/2016	0716-02	E3D
7/25/2016	0716-03	E4S
7/25/2016	0716-04	E4D
7/26/2016	0716-05	STP
7/25/2016	0716-06	NE1S
7/25/2016	0716-07	NE1D
7/26/2016	0716-08	N5D
7/26/2016	0716-09	N5S
7/27/2016	0716-10	S11D
7/27/2016	0716-11	S11S
7/26/2016	0716-12	S10S
7/25/2016	0716-13	W2S
7/26/2016	0716-14	W1D
7/26/2016	0716-15	N1D
7/26/2016	0716-16	N1SR
7/27/2016	0716-17	N2D
7/27/2016	0716-18	N2S
7/26/2016	0716-19	C1S
7/26/2016	0716-20	N3D
7/26/2016	0716-21	N3S
7/26/2016	0716-22	E2D
7/26/2016	0716-23	E2S
7/25/2016	0716-24	S7

Date Sampled	Sample Number	Well Number
7/27/2016	0716-25	E1D
7/27/2016	0716-26	E1S
7/26/2016	0716-27	SE1D
7/26/2016	0716-28	SE1S
7/27/2016	0716-29	DNR
7/25/2016	0716-30	WR1
7/26/2016	0716-31	C1S (Duplicate)
7/26/2016	0716-32	N3D (Duplicate)
7/26/2016	0716-50	E5D
7/27/2016	0716-51	E6D
7/26/2016	0716-52	E8D
7/26/2016	0716-53	N5D
7/26/2016	0716-54	S10S
7/27/2016	0716-55	N2D
7/27/2016	0716-56	N2S
7/27/2016	0716-57	E1D
7/26/2016	0716-95	E5D
7/27/2016	0716-96	E6D
7/26/2016	0716-97	E7D
7/26/2016	0716-98	E8D

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: DOT
Sample ID: 0716-01
Date: 7/26/2016
Weather: Sunny

DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other
Meter: (MP-20) YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill
Discharge
Pressure
Flow
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? Y (N)
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1627	begin purge							
1637		14.20	671	0.98	7.67	-149	0.73	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: F3D
Sample ID: 0716-02
Date: 7/25/2016
Weather: Sunny

151.29 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 12
Discharge 8
Pressure 95
Flow 600 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1518		26.54	675	6.30	7.73	31		
1523		23.66	727	6.83	7.77	37		
1526	151.30	22.65	739	6.98	7.79	41		
1529		21.75	750	7.07	7.79	46		
1532		21.46	756	7.08	7.77	49		
1535		21.54	756	7.03	7.76	52		
1538		21.67	761	6.99	7.74	55	0.54	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: E45
Sample ID: 0716-03
Date: 7/25/2016
Weather: Sunny



141.45 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 200 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1410		14.52	812	8.69	7.51	-9		
1415		12.94	1012	5.69	7.16	21		
1418		12.49	1069	4.15	7.06	33		
1421		12.38	1089	3.38	7.02	38		
1424		12.35	1107	2.90	6.99	43		
1427	141.54	12.29	1125	2.56	6.98	45		
1430		12.31	1137	2.42	6.98	47	0.74	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: E4D
Sample ID: 0716-04
Date: 7/25/2016
Weather: Sunny



153.71 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow ~~50~~ mL/min 70

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1307		17.22	574	7.29	7.97	92		
1312		14.90	585	7.23	7.57	91		
1315		14.37	582	5.46	7.52	-115		
1318	153.83	14.18	573	4.12	7.59	-152		
1321		14.10	567	3.36	7.64	-169		
1324		13.85	561	2.50	7.73	-182		
1327		13.80	555	2.19	7.80	-192	2.49	
1330		13.57	552	1.72	7.86	-199		
1333		13.48	553	1.53	7.89	-203		

Notes / Observations (color, odor, anomalies, etc):

* bug stuck in sample tubing.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island Co. Landfill | DTW: | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: STP | TOS: | MP-20 | Refill: | One Well Volume (liters): | Other:

Sample ID: 0716-05 | Intake: | (YSI) | Discharge: | Flow Setting:

Date: 7/ 26 /2016 | BOS: | Pressure: | Total Volume Bailed (liters):

Weather: Sunny 75°F | Total Depth: | Flow:

Filtered? (Y) N | Locked? Y (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly		125 ml Poly
250 ~~500~~ ml HNO3 (x2)	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3)	x6	1000 ml Amber
125 ml NaOH	250ml H2SO4 glass (1)			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1519	Pump turned on							
1529	—	12.16	571	1.29	8.88	-103.8	135.1	—

Notes / Observations (color, odor, anomalies, etc):

Pump turned on by Site personel at wastewater pond.

Turbidity meter Micro TPW

Sample Volume: Cloudy/grayish

Sample Time: 1530

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: NE1S
Sample ID: 0716-06
Date: 7/25/2016
Weather: Sunny

144.64 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 80 | Total Volume Bailed (liters)
Flow ~~X~~ mL/min 90

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1150		14.92	583	7.12	7.50	83		
1155		16.91	735	6.30	7.34	94		
1158		16.66	~~772~~	5.91	7.22	98		
1201		16.61	785	5.70	7.17	101		
1204	144.73	16.64	798	5.56	7.13	102		
1207		16.69	805	5.41	7.10	104		
1210		16.92	809	5.32	7.09	105	0.98	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: NE1D
Sample ID: 0716-07
Date: 7/ 25 /2016
Weather: Sunny

158.24 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 100
Flow ~~20~~ 50 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1034		23.30	703	5.99	7.01	109		
1039		20.87	699	5.59	6.88	110		
1042		20.17	699	5.65	6.83	112		
1045		19.59	696	5.63	6.80	113		
1048		18.66	696	5.30	6.79	114		
1051		18.55	693	5.10	6.80	113		
1054		18.38	690	4.64	6.84	112	1.02	
				↑				
				*				

Notes / Observations (color, odor, anomalies, etc):

* time constraints had to sample.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: N5D
Sample ID: 0716-03
Date: 7/26/2016
Weather: overcast

149.99 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS:
Refill 15
Discharge 15
Pressure 100
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1043		13.42	1174	7.30	7.47	133		
1048		12.10	1272	6.55	7.34	139		
1051		11.95	1332	5.21	7.25	111		
1054		11.93	1385	3.70	7.18	99		
1057		11.85	1409	2.99	7.15	61		
1100		11.90	1426	2.30	7.13	17		
1103	150.00	11.83	1441	1.85	7.12	-4		
1106		11.89	1441	1.55	7.11	-14	0.86	
				↑				
				*				

Notes / Observations (color, odor, anomalies, etc):
Edge
Split taken as 0716-53
@ 1106

* Did not wait for D.O. to equil due to time constraint issues

N45 = 124.43

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island Co. Landfill | DTW: 150.22 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: NSS | TOS: | MP-20 | Refill: 8.5 | One Well Volume (liters): | Other:

Sample ID: 0716-09 | Intake: | YSI | Discharge: 6.5 | Flow Setting:

Date: 7/26/2016 | BOS: | Pressure: 80 | Total Volume Bailed (liters):

Weather: overcast | Total Depth: | Flow: 200 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
945		12.61	751	7.60	6.49	175		
950		11.80	756	6.69	6.99	161		
953		11.55	752	4.80	7.05	154		
956		11.48	749	3.37	7.07	150		
959		11.43	754	2.58	7.08	147		
1002	150.23	11.33	749	1.77	7.09	142		
1005		11.28	753	1.47	7.10	139	1.09	
1008		11.29	746	1.27	7.11	136		

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: S110
Sample ID: 0716 - 10
Date: 7/ 27 /2016
Weather: sunny

146.72 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 10
Discharge: 10
Pressure: 100
Flow: 175 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1002		13.45	927	9.34	7.02	164		
1007	148.08	11.38	929	4.80	7.32	109		
1010		11.34	935	3.72	7.32	-19		
1013		11.20	930	2.60	7.34	-66		
1016	148.47	11.12	926	1.90	7.35	-62		
1019		11.12	928	1.44	7.35	-77	6.49	
1022	148.75	11.05	926	1.30	7.37	-82	2.71	
1025		11.08	925	1.14	7.39	-94	3.89	

Notes / Observations (color, odor, anomalies, etc):

air setting into sample tubing

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: S115
Sample ID: 0716-11
Date: 7/ 27 /2016
Weather: Sunny 61°F

134.92 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 11
Discharge 9
Pressure 20
Flow 300ml/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly (1)
500 ml Poly
250 ml Poly
125 ml Poly
250 ~~500~~ ml HNO3 (x2)
35 ~~500~~ ml H2SO4 ~~x2~~ (1)
40 ml VOA (x3) x6
1000 ml Amber
125 ml NaOH
~~250~~ ml H2SO4 glass (1)

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1006	134.92	Pump	turned	on				0.0
1007	135.62	12.15	897	10.72	7.76	133.9	8.23	0.1
1012	135.79	10.87	894	3.57	8.56	-102.3		2.9
1015	135.71	10.76	896	1.76	8.66	-102.3		3.5
1018	135.71	10.75	896	0.73	8.64	-94.4	9.24	4.0
1021	135.71	10.74	895	0.42	8.56	-84.4		5.1
1024	135.71	10.77	893	0.28	8.47	-73.5		6.0
1027	135.71	10.78	892	0.24	8.44	-69.3	7.83	7.5
1030	135.71	10.80	892	0.22	8.42	-66.3		8.0

Notes / Observations (color, odor, anomalies, etc):

Turbidity meter: Micro Tpw

Sample Volume; Clear/Colorless odor
liquid has light Sulfur like odor

Sample Time: 1035

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Brian McMullen
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island Co. Landfill | Meter: MP-20

Well ID: S10S | 135.94 DTW | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Sample ID: 0716-12 | TOS | Intake: YSI | Refill: 8 | One Well Volume (liters): | Other:

Date: 7/ 26 /2016 | BOS | Discharge: 7 | Flow Setting:

Weather: Sunny | Total Depth | Pressure: 80psi | Total Volume Bailed (liters):

Flow: 300ml/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500~~ ml HNO3 (x2)	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250 ml H2SO4 glass (1)		

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1556	135.94	Pump	turned	on				0.0
1557	136.02	20.56	1160	8.15	8.14	45.3	1387	0.1
1602	136.02	15.24	1410	0.72	7.21	72.2		1.75
1605	136.02	15.15	1410	0.61	7.19	71.9		2.90
1608	136.02	15.12	1414	0.51	7.17	72.7	1389	3.90
1611	136.02	15.02	1413	0.44	7.17	73.2		4.50
1614	136.02	15.07	1411	0.39	7.16	74.1		5.30
1617	136.02	15.05	1412	0.39	7.16	74.2	1367	6.00

Notes / Observations (color, odor, anomalies, etc):

Turbidity meter: Micro TPW

Edge split taken as 0716-54 @ 1620

Sample Volume: Clear/Colorless

Sample Time: 1620

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: W25
Sample ID: 0716 - 13
Date: 7/25/2016
Weather: sunny

148.57 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill: 9
Discharge: 6
Pressure: 80
Flow: 200mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1800		13.78	887	7.87	7.58	89		
1805		13.82	906	7.52	7.50	90		
1808		14.13	915	7.48	7.43	93		
1811		14.32	932	7.41	7.31	94		
1814		13.57	959	7.32	7.14	98		
1817		12.50	958	6.85	7.06	100		
1820		12.38	949	6.66	7.05	100	0.62	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

139.64

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: WID
Sample ID: 0716 - 14
Date: 7/26/2016
Weather: sunny



139.64 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 30
Flow 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1222		12.83	981	8.10	7.03	110		
1227		11.69	979	7.17	6.94	111		
1230		11.50	971	6.90	6.97	111		
1233		11.53	975	5.33	7.08	-1		
1236		11.53	975	3.85	7.20	-61		
1239		11.55	973	2.85	7.34	-78		
1242	139.64	11.56	971	2.25	7.44	-88		
1245		11.60	974	1.80	7.52	-101		
1248		11.72	968	1.60	7.57	-108	0.62	

Notes / Observations (color, odor, anomalies, etc):

WLS = 109.73

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: ~~A1SR~~ N1D
Sample ID: ~~07-16Bm~~ ~~0716-16~~ 0716-15
Date: 7/ 26 /2016
Weather: Cloudy 53°F

136.62 Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
~~136.84~~ DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill 20
Discharge 10
Pressure 85
Flow 150mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly (1)
500 ml Poly
250 ml Poly
125 ml Poly
250 ~~500~~ ml HNO3 (x2)
250 ~~500~~ ml H2SO4 ~~x2~~ (1)
40 ml VOA (x3) x6
1000 ml Amber
125 ml NaOH
250 H2SO4 glass (1)

Liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0946	136.62	Pump	turned	on				0.0
0947	136.65	18.07	1327	7.29	7.68	150.7		0.1
0952	136.65	14.93	1488	7.78	7.78	150.2		0.5
0955	136.65	14.61	1504	8.38	7.77	146.7	6.11	0.75
0958	136.65	14.10	1513	8.35	7.69	142.5		1.00
1001	136.65	14.05	1515	8.32	7.68	142.6	5.50	1.5
1004	136.65	14.05	1517	6.36	7.57	142.5		2.0
1007	136.65	13.97	1519	5.35	7.56	119.6	5.35	2.5
1009	136.65	13.99	1518	5.31	7.58	67.6		3.0
1011	136.65	13.97	1519	5.25	7.59	61.4	5.27	3.3

Notes / Observations (color, odor, anomalies, etc):
Turbidity meter Micro Tpw
Sample Volume = clear/colorless
Sample Time = 1015

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Brian McMullen
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: N1SR
Sample ID: 0716-16
Date: 7/26/2016
Weather: Cloudy 53°F

91.40 DTW
~~90.07~~ BI
DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 20
Discharge 10
Pressure 55
Flow 400ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly (1)
500 ml Poly
250 ml Poly
125 ml Poly
250 ~~500~~ ml HNO3 (x2)
~~250~~ ~~500~~ ml H2SO4 ~~x2~~ (1)
40 ml VOA (x3) x6
1000 ml Amber
125 ml NaOH
250ml H2SO4 (1) glass

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1037	91.40	Pump turned on						0.0
1040	92.18	13.87	434	8.14	7.79	122.3	8.08	0.1
1045	92.30	12.62	436	3.42	6.72	156.8		3.0
1048	92.30	12.57	447	3.31	6.69	144.1		5.0
1051	92.30	12.58	450	3.32	6.68	165.8	5.37	6.0
1054	92.30	12.62	455	3.06	6.68	169.3		7.3
1057	92.30	12.61	456	3.03	6.67	170.1		8.5
1100	92.30	12.57	459	3.00	6.67	170.9	5.16	9.8

Notes / Observations (color, odor, anomalies, etc):

turbidity meter Micro Tpw

Sample Volume: Clear/colorless

Sample Time: 1105

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B mcmullen
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: 2ND → N2D
Sample ID: 0716-17
Date: 7/27/2016
Weather: Sunny 75°F

148.43 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 85
Flow 300ml/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500~~ ml HNO3 (x2)	~~250 500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250ml H2SO4 glass (1)		

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1135	148.43	Pump turned on						0.0
1147	148.45	13.48	1210	3.36	7.88	-60.1	5.57	0.1
1152	148.45	14.58	1174	1.64	7.69	-1.4		1.5
1155	148.45	14.21	1178	0.66	7.63	-25.4		2.5
1158	148.45	14.23	1179	0.63	7.63	-27.9	4.96	3.0
1201	148.45	14.17	1183	0.54	7.63	-37.2		4.0
1204	148.45	14.16	1208	0.49	7.63	43.6		5.0
1207	148.45	14.21	1209	0.44	7.63	50.0	5.31	6.0
1210	148.45	14.29	1209	0.44	7.62	50.8		7.0

Notes / Observations (color, odor, anomalies, etc):
Turbidity meter Micro Tip
Water takes long time to get to Surface.

Edge Split = 0716-55 x2 40ml unpreserved Poly
Edge Split Sample Time: 1215

Sample Volume: Clear/Colorless

Sample Time: 1215

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island Co. Landfill | Meter: CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: N2S | 136.90 DTW | MP-20 | Refill: 10 | One Well Volume (liters): | Other:

Sample ID: 0716-18 | TOS | YSI | Discharge: 5 | Flow Setting:

Date: 7/27/2016 | Intake | Pressure: 90psi | Total Volume Bailed (liters):

Weather: Sunny 80°F | BOS | Flow: 100ml/min

Total Depth

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500~~ ml HNO3 x2	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250ml H2SO4 glass (1)		

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1222	136.90	Pump turned		on				0.0
1229	137.25	18.70	1443	5.35	7.39	94.2	7.41	0.1
1234	137.28	17.60	1591	4.75	7.27	102.4		1.0
1237	137.30	17.58	1596	4.71	7.27	103.1		1.2
1240	137.30	17.81	1594	4.63	7.27	103.7	6.59	1.7
1243	137.30	17.92	1595	4.56	7.27	104.7		1.9
1246	137.30	17.81	1599	4.50	7.26	105.2		2.0
1249	137.30	17.93	1548	4.41	7.26	105.2	6.31	2.3

Notes / Observations (color, odor, anomalies, etc):

turbidity meter micro Tpw

took awhile to get water to surface.

Edge Split = 0716-56 x2 use uppreserved vials

Edge Split Sample Time @ 1250

Sample Volume: ~~1250~~ Rm Clear/Colorless

Sample Time: 1250

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B memulum
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: C1S
Sample ID: 0716-19
Date: 7/ 26 /2016
Weather: Cloudy 53°F

89.84 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 60psi
Flow 400ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500~~ ml HNO3 x2	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250ml H2SO4 glass (1)		

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol. (liters)
1124	89.84	Pump	turned	on				0.0
1125	90.10	16.36	1171	8.78	7.73	147.7	5.49	0.1
1130	90.40	13.60	1529	5.07	6.94	168.2		1.8
1133	90.42	13.58	1549	4.62	6.93	171.5		2.5
1136	90.45	13.60	1558	4.51	6.92	174.1	6.30	3.7
1139	90.43	13.58	1561	4.45	6.92	177.1		4.9
1142	90.43	13.61	1561	4.48	6.93	178.1		5.50
1145	90.43	13.60	1561	4.43	6.93	178.8	5.67	6.10

Notes / Observations (color, odor, anomalies, etc):

Turbidity meter micro Tpw

Duplicate Sample Collected at C1S
Dup = 0716-31

Sample Volume: Clear/Colorless
Sample C1S Time: 1155
Sample Dup Time: 1150

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: R McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: N3D
Sample ID: 0716-20
Date: 7/26/2016
Weather: Cloudy 55°F

150.49 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 80 psi
Flow: 400ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 500 ml HNO3 (x2)	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250ml H2SO4 glass (1)		

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol. (liters)
1227	150.49	Turned	Pump	on				0.0
1229	150.68	20.84	718	7.15	7.91	122.2	7.29	0.1
1234	150.69	14.02	634	7.13	7.08	147.0		2.5
1237	150.70	13.67	634	4.17	7.45	55.5		4.0
1240	150.70	13.24	647	1.60	7.83	37.9	7.35	5.5
1243	150.70	13.27	646	1.28	7.89	43.0		6.5
1246	150.70	13.09	643	0.99	7.94	43.9		7.1
1249	150.70	13.03	641	0.92	7.95	42.9	7.31	8.3
1251	150.70	13.10	640	0.87	7.97	40.2		9.1

Notes / Observations (color, odor, anomalies, etc):

Turbidity meter micro TPW

Duplicate Sample Collected at N3D
Dup = 0716-32

Sample Volume: Clear/colorless with some small pices of debris in liquid.
Sample N3D Time: 1300

Sample Dup Time: 1255

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B mcmullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: N3S
Sample ID: 0716-21
Date: 7/ 26 /2016
Weather: Cloudy 53°F

140.13 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 13
Discharge 7
Pressure 80 psi
Flow 325 ml/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly (1)
500 ml Poly
250 ml Poly
125 ml Poly
~~250~~ ~~500~~ ml HNO3 (x2)
~~250~~ ~~500~~ ml H2SO4 ~~x2~~ (1)
40 ml VOA (x3) x6
1000 ml Amber
125 ml NaOH
250 ml H2SO4 glass (1)

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1311	140.13	Pump	turned	on				0.0
1314	140.21	15.87	984	8.05	7.76	127.2	12.45	0.1
1319	140.26	13.34	1109	4.48	7.70	1.8		2.1
1322	140.29	13.26	1092	5.30	7.65	21.6		3.5
1325	140.30	13.15	1070	6.15	7.57	53.4	6.53	4.5
1328	140.30	13.39	1062	6.34	7.56	59.1		5.7
1331	140.30	13.41	1061	6.41	7.54	63.1		6.7
1334	140.30	13.42	1061	6.41	7.54	63.2	5.91	7.9

Notes / Observations (color, odor, anomalies, etc):

Turbidity Meter Micro TPW

Sample Volume: Clear/colorless
Sample Time: 1335

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B Mumulen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island Co. Landfill | Meter: MP-20 YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E2D | 148.45 DTW | TOS | Intake | BOS | Total Depth

Sample ID: 0716-22 | Refill 10 | Discharge 10 | Pressure 110 | Flow 200ml/min | One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Date: 7/26/2016

Weather: Sunny 75°F

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500~~ ml HNO3 (x2)	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250ml H2SO4 glass (1)		

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol. (liters)
1359	148.45	Pump turned on						0.0
1402	148.50	21.63	1288	6.47	7.74	102.9	5.51	0.5
1407	148.55	14.68	1711	6.17	7.32	123.8		1.0
1410	148.60	14.42	1744	3.41	7.15	128.2		2.0
1413	148.61	14.30	1729	1.45	7.08	129.3	5.87	2.5
1416	148.61	14.40	1725	1.09	7.06	129.2		3.0
1419	148.61	14.19	1726	0.97	7.05	129.1		3.5
1422	148.61	14.29	1723	0.91	7.05	129.1	5.63	4.0

Notes / Observations (color, odor, anomalies, etc):

Turbidity meter interference

Sample Volume: Clear / Colorless

Sample Time: 1425

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B Mcmullin
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: E25
Sample ID: 0716-23
Date: 7/26/2016
Weather: Sunny 75°F

137.88 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 12 One Well Volume (liters) Other:
Discharge 8 Flow Setting:
Pressure 95psi Total Volume Bailed (liters)
Flow 200ml/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly (1) | 500 ml Poly | 250 ml Poly | 125 ml Poly
250 ~~500~~ ml HNO3 (x2) | 250 ~~500~~ ml H2SO4 ~~x2~~ (1) | 40 ml VOA (x3) x6 | 1000 ml Amber
125 ml NaOH | 250ml H2SO4 glass (1)

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1439	137.88	Pump	turned	on				0.0
1440	138.90	14.52	1107	8.77	7.67	125.0	5.67	0.1
1445	138.16	13.18	1338	1.25	7.17	127.1		3.0
1448	138.21	13.14	1337	0.87	7.17	126.0		4.5
1451	138.21	13.00	1340	0.42	7.17	122.0	6.51	6.0
1454	138.21	12.98	1339	0.33	7.17	118.0		7.5
1457	138.21	12.99	1340	0.31	7.17	117.8		8.5
1500	138.21	13.04	1339	0.30	7.17	117.1	5.71	9.5

Notes / Observations (color, odor, anomalies, etc):
Turbidity meter micro TPW

Sample Volume: Clear/Colorless
Sample Time: 1505

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: MW 57
Sample ID: 0716-24
Date: 7/25/2016
Weather: Sunny

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

DTW _____
TOS _____
Intake _____
BOS _____
Total Depth _____

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill _____
Discharge _____
Pressure _____
Flow _____

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters) _____
Total Volume Bailed (liters) _____
Other: _____
Flow Setting: _____

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1635		begin purge						
1645		17.61	747	1.36	7.85	-200	2.55	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabir
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: EID
Sample ID: 0716-25
Date: 7/27/2016
Weather: Sunny

138.12 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 80
Flow: 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1111		13.90	1446	8.08	7.12	62		
1116		14.18	1620	7.43	7.13	61		
1119		14.27	1650	7.34	7.14	63		
1122		14.35	1670	7.08	7.11	67		
1125	138.38	14.33	1670	5.48	7.01	67		
1128		14.34	1680	3.53	6.92	54		
1131	138.40	14.50	1680	2.37	6.87	46		
1136		14.48	1680	1.82	6.84	46		
1139	138.35	14.73	1690	1.63	6.83	47	0.84	

Notes / Observations (color, odor, anomalies, etc):

Edge pH taken as 0716-57 @ 1139

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: EIS
Sample ID: 0716 - 26
Date: 7/ 27 /2016
Weather: Sunny

138.38 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 13
Discharge 7
Pressure 75
Flow 200 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

9151 collected here

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1307		15.22	1146	7.76	7.15	20		
1312		12.90	1139	6.48	6.82	45		
1315		12.87	1128	6.39	6.77	53		
1318		13.02	1137	6.31	6.75	59		
1321		13.16	1133	6.30	6.75	62		
1324	138.45	13.13	1131	6.23	6.74	65		
1327		12.98	1136	6.26	6.74	68	1.39	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: SEID
Sample ID: 0716-27
Date: 7/26/2016
Weather: Sunny

140.28 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 90
Flow 250 mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
air setting into sample tubing below top of casing.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1735		13.95	937	7.75	7.59	61		
1740		12.02	936	6.88	7.46	68		
1743		11.73	938	3.54	7.42	-34		
1746		11.62	931	2.70	7.46	-73		
1749	140.93	11.65	927	2.01	7.54	-106		
1752	140.88	11.83	927	2.57	7.58	-110		
1755	140.78	11.85	928	2.51	7.60	-111	8.41	
1758		11.83	936	2.44	7.61	-112	8.23	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: SE15
Sample ID: 0716-28
Date: 7/ 26 /2016
Weather: Sunny 75°F

139.90 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 20
Discharge 10
Pressure 75psi
Flow 300ml/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500 ml~~ HNO3 (x2)	250 ~~500 ml~~ H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250 ml H2SO4 glass (1)		

liters

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1729	139.90	Turned pump on						0.0
1730	139.95	13.57	848	8.89	7.91	55.0	7.53	0.1
1735	140.10	11.72	845	7.59	7.69	69.2		1.0
1738	140.12	11.07	840	6.92	7.65	74.0		2.0
1741	140.13	11.01	840	6.68	7.63	76.9	3.65	3.1
1744	140.12	10.92	842	6.15	7.62	77.3		4.0
1747	140.12	10.85	843	5.87	7.62	76.9		5.0
1750	140.12	10.85	844	5.61	7.62	77.1	4.66	6.0
1752	140.12	10.85	843	5.57	7.62	77.4		6.5
1754	140.12	10.85	843	5.57	7.62	77.4	3.97	7.0

Notes / Observations (color, odor, anomalies, etc):

Turbidity meter micro TPW

Sample Volume: Clear/Colorless

Sample Time: 1755

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Brian McMunn
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: DNR
Sample ID: 0716-29
Date: 7/27/2016
Weather: Sunny 70°F

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: MP-20 (YSI)

DTW: —
TOS:
Intake:
BOS:
Total Depth:

CONTROL SETTINGS:
Refill:
Discharge:
Pressure:
Flow:

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly (1)	500 ml Poly	250 ml Poly	125 ml Poly
250 ~~500~~ ml HNO3 (x2)	250 ~~500~~ ml H2SO4 ~~x2~~ (1)	40 ml VOA (x3) x6	1000 ml Amber
125 ml NaOH	250 ml H2SO4 (1) glass		

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1053	—	Pump turned		on		~~-25.8~~		—
~~1058~~	—							
1103	—	13.05	849	1.43	8.22	-25.8	6.21	—

Notes / Observations (color, odor, anomalies, etc):

1053: turned on at tap inside of shed will let run for 10 min before Sampling

Turbidity meter micro Tpw

Sample Volume: Clear/Colorless
Sample Time: 1105

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullin
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island Co. Landfill | DTW | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: WR1 | TOS | MP-20 | Refill | One Well Volume (liters) | Other:

Sample ID: 0716-30 | Intake | YSI | Discharge | Flow Setting:

Date: 7/25/2016 | BOS | Pressure | Total Volume Bailed (liters)

Weather: Sunny | Total Depth | Flow

Filtered? (Y) N | Locked? Y (N) | Water in Protector? Y N | Damage? Y N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1717	begin purge							
1727		14.22	856	3.29	7.36	103	0.77	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: ESD
Sample ID: 0716 - 95
Date: 7/26/2016
Weather: Sunny

145.32 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 8
Discharge 12
Pressure 100
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1330		17.20	976	6.90	7.38	40		
1335		15.90	1001	4.22	7.30	22		
1338		14.75	1017	3.57	7.27	-36		
1341		14.43	1028	2.75	7.24	-105		
1344		14.25	1045	2.03	7.22	-118		
1347	145.36	13.92	1056	1.60	7.21	-125		
1350		13.76	1064	1.23	7.19	-129		
1353		13.68	1071	1.09	7.19	-131	1.38	

Notes / Observations (color, odor, anomalies, etc):

Edge Split taken as 0716-50 @ 1353

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: E6D
Sample ID: 0716 - 96
Date: 7/27/2016
Weather: Sunny

148.34 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 10
Pressure 100
Flow 75 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) S6.
Locked? Y (N)
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1216	148.34	19.64	707	3.12	7.59	-146		
1221	148.87	18.61	703	1.93	7.54	-171		
1224	148.93	18.59	702	1.57	7.52	-181		
1227	149.04	18.45	696	1.27	7.52	-188		
1230		18.36	695	1.13	7.52	-194		
1233		18.40	698	1.00	7.52	-198		
1236		18.18	699	0.91	7.53	-202	1.30	

Notes / Observations (color, odor, anomalies, etc):

Edge split as 0716 - 51 @ 1236

exhaust from vehicles at scale house ≈ 15 ft away

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: ETO
Sample ID: DUP 0716 - 97
Date: 7/ 26 /2016
Weather: Sunny

146.43 DTW
TOS
Intake
BOS
Total Depth *

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? Y (N)
Water in Protector? (Y) N
Damage? (Y) N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1435		19.51	1213	6.30	7.24	0		
1440		18.06	1449	3.07	6.74	-31		
1443		17.64	1620	1.53	6.54	-45		
1446		17.73	1650	1.29	6.52	-48		
1449	146.50	17.63	1680	0.97	6.50	-51		
1452		17.57	1680	0.88	6.49	-51	0.70	

Notes / Observations (color, odor, anomalies, etc):

* Flush mount lid cracked in half. Can still cover well. - Needs to be replaced

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island Co. Landfill
Well ID: E8D
Sample ID: 0716-98
Date: 7/26/2016
Weather: sunny

149.73 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10
Discharge 10
Pressure 100
Flow 100 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1545		15.93	571	7.44	7.49	54		
1550		13.54	575	6.36	7.27	-25		
1553		13.04	570	4.65	7.23	-43		
1556		12.89	573	3.65	7.23	-45		
1559		12.91	570	2.68	7.24	-43		
1602		12.87	570	2.10	7.25	-43		
1605		12.75	570	1.68	7.25	-67	3.10	
1608		12.69	576	1.48	7.26	-92		

Notes / Observations (color, odor, anomalies, etc):

Split sample 0716-52 @ 1608

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/25/16					
Time	935					
Weather (sky or precip, temp)	sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1289	4.01	7.00			
Post Cal Reading	1413	3.86	6.86	7.29	785, 99.8, 20.7, 1.17	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SE6					
Instrument Type, ID	~~MP20~~ / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/26/16					
Time	0830					
Weather (sky or precip, temp)	Cloudy 55°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 ~~800, 100, 20,~~ <0.1	
Pre-Cal Reading	1412	4.13	7.10	10.11	NA	
Post Cal Reading	1413	4.0	7.0	10.13	1000 10 0.2	
Descrepancy	0.0	0.0	0.0	NA	0.0 0.0 0.0	
Calib. Successful?	✓	✓	✓	✓	✓	
Calibration by	B McMullen					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Island County					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/26/16					
Time	0830					
Weather (sky or precip, temp)	Cloudy 55°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	(1000), (10), (0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1415	4.19	7.15	~~n/a~~		
Post Cal Reading	1413	4.00	7.00	N/A	1000 10 0.2	
Descrepancy	0.0	0.0	0.0		0.0 0.0 0.0	
Calib. Successful?	✓	✓	✓	✓	✓	
Calibration by	B McMullen					
Instrument Type, ID		(MP20) / YSI 556			MicoTPW / HACH2000	
Calibration Location	Island County					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/27/16					
Time	845					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1396	3.97	7.04			
Post Cal Reading	1413	4.01	7.00	8.39	784, 98.9, 20.3, 0.75	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7.27.16					
Time	845					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1419	4.08	7.11	8.98	NA	
Post Cal Reading	1413	4.01	7.00	8.88	1029, 10.15, 0.0	
Descrepancy	00	0.0	0.0	NA	0.0 0.0 0.0	
Calib. Successful?	✓	✓	✓	✓	✓ ✓ ✓	
Calibration by	B mcmullen					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Island County					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.09	**TASK NO.**	1,2,3	**DATE**	7-25-16	**PROJECT NAME**	Island County Landfill
TEMP	60	**BARO**	29.75	**WIND**	2 MPH W	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	3	Project Foreman	11	
			DAILY TOTAL	11	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	11	$203.50
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$203.50

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	13664	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
0851 Blower # 1	70770	3.1	7.00’	SV	-0.5” H2O	100% Open
0851 Blower # 2	95098	3.6		LFG	N/A	50% Open

Propane Tank Level	Propane Line PSI					
60% Full	12					

SUMMARY	0730 SDG travel from Oak Harbor, WA. To Coupeville, WA.
0800 SDG onsite to Monitor the Perimeter Gas Probes and the Extraction Wells.	
0817 SDG started the Flare.	
0840 SDG calibrating the Gem – 2000.	
0851 SDG Monitoring the Extraction Well.	
1023 SDG completed monitoring the Extraction Wells.	
1054 SDG monitoring the Perimeter Gas Probes.	
1455 SDG completed monitoring.	
1515 Post Calibration.	
1545 SDG offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 7-25-16 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.09

WEATHER OBSERVATIONS

Wind Speed: 4 MPH Wind Direction: E Barometric Pressure: 29.83"Hg

Air Temperature: 67° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
08:40	49.9%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1515	50.0%	34.8%	20.9%

NOTES:

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

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SCS ENGINEERS

November 1, 2016

File No. 04207033.09

Subject: **Fourth Quarter 2016 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: October 24-28, 2016
Personnel: Sam Graber & Sam Adlington

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells C1S and N3D.
- Water level elevations were measured at monitoring wells W1S on October 24 and N4S on October 28, 2016.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at monitoring wells E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
10/26/2016	1016-01	DOT
10/28/2016	1016-02	E3D
10/25/2016	1016-03	E4S
10/25/2016	1016-04	E4D
10/27/2016	1016-05	STP
10/25/2016	1016-06	NE1S
10/25/2016	1016-07	NE1D
10/27/2016	1016-08	N5D
10/27/2016	1016-09	N5S
10/24/2016	1016-10	S11D
10/24/2016	1016-11	S11S
10/26/2016	1016-12	S10S
10/26/2016	1016-13	DNR
10/24/2016	1016-14	W1D
10/24/2016	1016-15	N1D

Date Sampled	Sample Number	Well Number
10/24/2016	1016-16	N1SR
10/26/2016	1016-17	N2D
10/26/2016	1016-18	N2S
10/28/2016	1016-19	C1S
10/24/2016	1016-20	N3D
10/24/2016	1016-21	N3S
10/28/2016	1016-22	E2D
10/28/2016	1016-23	E2S
10/25/2016	1016-24	S7
10/27/2016	1016-25	E1D
10/26/2016	1016-26	E1S
10/28/2016	1016-27	SE1D
10/28/2016	1016-28	SE1S
10/25/2016	1016-29	W2S
10/25/2016	1016-30	WR1
10/28/2016	1016-31	C1S (Duplicate)
10/24/2016	1016-32	N3D (Duplicate)
10/26/2016	1016-50	E5D
10/27/2016	1016-51	E6D
10/26/2016	1016-52	E8D
10/27/2016	1016-53	N5D
10/26/2016	1016-54	S10S
10/26/2016	1016-55	N2D
10/26/2016	1016-56	N2S
10/27/2016	1016-57	E1D
10/26/2016	1016-95	E5D
10/27/2016	1016-96	E6D
10/27/2016	1016-97	E7D
10/26/2016	1016-98	E8D
10/24/2016	1016-99	E9D
10/24/2016	1016-100	E10D

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: DOT
Sample ID: 1016-01
Date: 10/26/16
Weather: rainy

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: (MP-20) YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill
Discharge
Pressure
Flow

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1535	begin purge							
1545		11.56	683	1.65	7.45	-135	0.86	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: E3D
Sample ID: 1016-02
Date: 10/29/16
Weather: Sunny

151.03 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 11
Discharge: 9
Pressure: 100
Flow: 120 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1120		13.27	634	7.59	7.74	10		
1125		13.02	653	7.62	7.60	22		
1129		12.75	702	7.68	7.51	31		
1131		12.49	740	7.79	7.42	37		
1134		12.34	745	7.75	7.37	42		
1137		12.12	747	7.36	7.32	47		
1140	151.18	12.15	751	7.16	7.26	49	0.80	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | Meter: CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E45 | MP-20 | Refill: 8 | One Well Volume (liters): | Other:

Sample ID: 1016-03 | YSI | Discharge: 7 | Flow Setting:

Date: 10/25/16 | Pressure: 80 | Total Volume Bailed (liters):

Weather: partly cloudy | Flow: 200 mL/min

DTW	141.47
TOS	
Intake	
BOS	
Total Depth	

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly		125 ml Poly	
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3 x6	1000 ml Amber	
125 ml NaOH							

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
920		11.96	821	8.01	6.28	143		
925		11.22	1027	4.35	6.61	133		
928		11.14	1077	3.07	6.59	126		
931		11.10	1112	2.46	6.58	120		
934		11.09	1125	2.21	6.57	117		
937		11.13	1144	1.89	6.57	111		
940	141.60	11.14	1158	1.79	6.58	108	0.89	

Notes / Observations (color, odor, anomalies, etc):

After filling COD bottle, about half the liquid spilled out of bottle. Result is the sample may be low on acid preservative. Marked on COC.

VOC sample slightly effervescent.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: E4D
Sample ID: 1016-04
Date: 10/25/16
Weather: partly cloudy

153.69 Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
DTW
Meter: MP-20 / YSI
TOS
Intake
BOS
Total Depth

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 100 | Total Volume Bailed (liters)
Flow 70 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1035		12.73	563	7.53	7.48	76		
1040		12.40	561	6.83	7.22	67		
1043		12.30	558	5.91	7.18	2		
1046		12.15	557	4.79	7.14	-125		
1049		12.00	554	3.18	7.25	-167		
1052		12.00	554	2.84	7.21	-179		
1055	153.83	12.05	544	2.20	7.42	-191	~~2.82~~	2.58
1058		12.03	547	2.00	7.49	-199	2.41	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island County LF | DTW | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: STP | TOS | MP-20 | Refill | One Well Volume (liters) | Other:

Sample ID: 1016-05 | Intake | YSI | Discharge | Flow Setting:

Date: 10/27/16 | BOS | Pressure | Total Volume Bailed (liters)

Weather: sunny | Total Depth | Flow

Filtered? (Y) N | Locked? Y (N) | Water in Protector? Y N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1450		begin purge						
1500		12.25	566	2.06	7.95	-20.0	55.3	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | DTW: 144.68 | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: NE15 | TOS: | Refill: 10 | One Well Volume (liters): | Other:

Sample ID: 1016-06 | Intake: | Discharge: 10 | Flow Setting:

Date: 10/25/16 | BOS: | Pressure: 85 | Total Volume Bailed (liters):

Weather: sunny | Total Depth: | Flow: 90 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1415		15.79	572	7.23	7.29	42		
1420		14.86	682	7.01	7.11	52		
1423		14.08	730	6.46	7.03	64		
1426		14.01	766	6.01	6.94	71		
1429		13.95	795	5.65	6.82	76		
1432		14.25	803	5.48	6.80	78		
1435	144.80	14.32	811	5.40	6.79	79	1.23	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: NE1D
Sample ID: 1616-07
Date: 10/25/16
Weather: Sunny

158.31 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 9
Discharge: 11
Pressure: 100
Flow: 50 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? (Y) N — monument cap broken

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1220		16.66	474	6.25	7.24	-79		
1225		16.46	581	6.13	7.02	-43		
1228		16.33	675	6.07	6.76	-18		
1231		15.99	677	5.80	6.62	15		
1234		15.73	675	5.38	6.59	20	1.05	
1237		15.66	684	4.80	6.61	24		
1240	158.40	15.67	675	4.29	6.64	26		
1243		15.38	675	3.85 *	6.72	25	0.89	

Notes / Observations (color, odor, anomalies, etc):

* Time constraint.

Odor from sewage treatment plant in air.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | DTW: 149.30 | Meter: MP-20 / YSI

Well ID: MW-5D | TOS: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Sample ID: 1016-08 | Intake: | Refill: 15 | One Well Volume (liters): | Other:

Date: 10/27/16 | BOS: | Discharge: 15 | Flow Setting:

Weather: overcast | Total Depth: | Pressure: 100 | Total Volume Bailed (liters):

Flow: ~~X~~ mL/min 100

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1123		12.00	1206	7.27	7.38	3		
1128		11.78	1272	6.81	7.31	10		
1131		11.42	1302	5.63	7.25	15		
1134		11.29	1341	5.28	7.19	19		
1137		11.22	1386	4.25	7.14	19		
1140		11.20	1419	3.35	7.08	18		
1143		11.20	1428	2.70	7.05	15		
1146	149.90	11.17	1452	2.30 *	7.03	13	1.03	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken as 1016-53 @ 1146

* Time constraint

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) | Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: NSS
Sample ID: 1016 - 09
Date: 10/27/16
Weather: overcast

150.02 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 8.5
Discharge 6.5
Pressure 90
Flow 200 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1255		11.34	767	7.37	7.16	16		
1300		11.10	761	5.21	7.12	21		
1303		10.93	754	2.91	7.07	27		
1306		10.80	752	1.51	7.06	24		
1309		10.77	744	0.90	7.05	21		
1312		10.77	746	0.78	7.05	20	1.24	
1315	150.05	10.77	751	0.75	7.05	19		

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: S11D | DTW: 146.56 | Refill: 10 | One Well Volume (liters): | Other:

Sample ID: 1016-10 | TOS: | Discharge: 10 | Flow Setting:

Date: 10/ 24 /16 | Intake: | Pressure: 100 | Total Volume Bailed (liters):

Weather: Rainy | BOS: | Flow:

Total Depth:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1718		11.22	421	8.44	7.68	-47		
1723		11.01	420	5.22	7.62	-60		
1726		10.75	418	3.69	7.56	-76		
1729		10.40	417	1.67	7.41	-91		
1732		10.36	417	1.30	7.43	-102		
1735	149.45	10.37	423	1.01	7.45	-112		
1739	149.45	10.36	428	0.88	7.46	-123		

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gates
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: S115
Sample ID: 1016 - 11
Date: 10/24/16
Weather: overcast



134.87 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 12.5
Discharge 7.5
Pressure 75
Flow 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1618		11.73	901	8.19	7.57	41		
1623								
1626		10.52	897	3.53	7.31	-187		
1629								
1632								
1635		10.38	907	0.30	7.45	-184		
1638		10.37	904	0.23	7.44	-173	0.73	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: _____ (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: S105
Sample ID: 1016-12
Date: 10/26/16
Weather: rainy

135.96 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 8
Discharge: 7
Pressure: 80
Flow: 300 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
920		14.75	1316	7.26	6.31	118		
925		14.56	1350	4.21	6.35	100		
928		14.12	1419	0.59	6.41	98		
931		14.10	1418	0.51	6.41	91		
934		14.08	1418	0.45	6.42	87		
937		14.06	1417	0.38	6.42	81	0.89	
940		14.01	1420	0.35	6.42	78	0.77	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken as
1016-54 @ 940

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gator
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: DNR
Sample ID: 1016 - 13
Date: 10/26/16
Weather: partly cloudy



DTW ____
TOS ____
Intake ____
BOS ____
Total Depth ____

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill ____
Discharge ____
Pressure ____
Flow ____

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters) ____
Other: ____
Flow Setting: ____
Total Volume Bailed (liters) ____

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y N
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1620	begin purge							
1630		16.62	858	3.09	7.20	-109	1.86	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabor
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: WiD
Sample ID: 1016-14
Date: 10/24/16
Weather: overcast

139.50 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 90
Flow 350 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1512		12.19	980	8.17	6.92	100		
1517		10.97	979	6.93	6.89	102		
1520		10.37	981	5.53	7.01	58		
1523		10.30	978	2.65	7.29	-58		
1526		10.77	981	1.75	7.45	-98		
1529		10.74	970	0.96	7.59	-127		
1532		10.72	979	0.77	7.61	-137	1.40	

Notes / Observations (color, odor, anomalies, etc):

DTW @ WiS = 109.45

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: NID
Sample ID: 1016-15
Date: 10/24/16
Weather: Overcast

136.40 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 80
Flow: 350 ml/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1307		16.27	1320	7.46	7.37	47		
1312		14.95	1.510	7.31	7.48	49		
1315		14.44	1,520	7.35	7.42	54		
1318		14.17	1520	7.09	7.35	57		
1321		14.04	1520	5.83	7.25	60		
1324		13.87	1520	3.97	7.14	5		
1327		13.79	1520	3.78	7.11	-41	1.20	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | DTW: 92.87 | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: NISR | TOS: | Refill: 8 | One Well Volume (liters): | Other:

Sample ID: 1016-16 | Intake: | Discharge: 7 | Flow Setting:

Date: 10/24/16 | BOS: | Pressure: 55 | Total Volume Bailed (liters):

Weather: overcast | Total Depth: | Flow: 350 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1403		13.73	495	6.12	7.00	13		
1408		12.86	478	3.00	6.23	84		
1411		12.78	486	2.98	6.20	93		
1414		12.77	500	3.02	6.19	102		
1417		12.76	503	3.03	6.19	107		
1420		12.73	504	2.99	6.18	112		
1423	93.57	12.73	504	2.99	6.17	114	0.86	

Notes / Observations (color, odor, anomalies, etc):

Air setting in Simple tubing.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) | (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: N2D
Sample ID: 1016-17
Date: 10/26/16
Weather: rainy

148.29 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 12
Discharge 8
Pressure 85
Flow 300 ml/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1230		13.18	1222	1.71	6.58	-215		
1235		13.19	1220	0.95	6.60	-200		
1239		13.19	1218	0.85	6.63	-175		
1241		13.19	1211	0.82	6.66	-155		
1244		13.15	1230	0.76	6.66	-135		
1247		13.12	1239	0.62	6.66	-115		
1250		13.16	1238	0.57	6.66	-115	6.45	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken at 1016-55 @ 1250

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Tom Grubser
Printed Name

Signature

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9

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: N25
Sample ID: 1016-18
Date: 10/26/16
Weather: rainy

136.65 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: ~~MP-20~~ YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 10
Discharge: 5
Pressure: 90
Flow: 60 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1050		13.58	1124	7.47	7.22	87		
1055		13.49	1321	6.21	6.92	95		
1059		13.36	1467	5.94	6.67	101		
1101		13.29	1530	5.06	6.55	104		
1104		13.29	1560	4.82	6.49	105		
1107		13.28	1540	4.53	6.48	105		
1110	136.40	13.40	1547	4.33	6.41	105	3.34	

Notes / Observations (color, odor, anomalies, etc):

Edge split 1016-56
@ 1110

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: GIS
Sample ID: 1016-19
Date: 10/28/16
Weather: Sunny

90.17 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS:
Refill 8
Discharge 7
Flow ~~Pressure~~ 350 mL/min
pressure ~~Flow~~ 60
1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1243		15.00	1372	8.74	7.15	-10		
1248		14.09	1280	4.03	6.46	-37		
1251		14.07	1255	3.55	6.43	5		
1254		14.04	1237	3.33	6.40	20		
1257		14.08	1246	3.31	6.40	35		
1300	90.48	14.03	1247	3.27	6.40	49		
1303		14.04	1245	3.26	6.40	56	1.05	

Notes / Observations (color, odor, anomalies, etc):

31
Dup taken as 1016-~~GIS~~
@ ~~1305~~ 1310

N45 DTW
123.92

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: N30
Sample ID: 1016 - 20
Date: 10/24/16
Weather: overcast



150.23 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 5
Pressure 30
Flow 300 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1140		16.26	707	4.61	7.17	67		
1145		15.08	636	5.97	6.69	78		
1149		14.57	635	5.84	6.60	85		
1151		14.45	631	5.91	6.57	87		
1154		14.28	631	5.76	6.56	91		
1157		14.21	629	5.47	6.58	80		
1200	150.31	14.13	631	5.29	6.67	26	2.68	

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 1016-32 @ 1210

Some particulates in sample

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: N35
Sample ID: 1016 - 21
Date: 10/24/16
Weather: overcast

139.67 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: (MP-20) YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 10
Discharge: 5
Pressure: 75
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1043		14.27	1068	4.32	6.58	130		
1048		13.72	1069	3.91	6.70	101		
1051		13.04	1079	3.69	6.90	84		
1054	139.75	13.00	1081	4.33	6.91	82		
1057		13.01	1069	4.89	6.93	82	0.91	
1100		13.01	1067	5.12	6.93	82		
1103		13.09	1057	5.26	6.94	82		
1106		13.07	1063	5.36	6.94	83	0.98	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: EZD
Sample ID: 1016 - 22
Date: 10/23/16
Weather: sunny

14.18.24 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10
Discharge 10
Pressure 100
Flow 200 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1518		15.49	1265	7.29	7.15	80		
1523		14.04	1570	6.72	6.92	do		
1526		13.74	1680	5.66 ~~6.66~~	6.82	94		
1529		13.48	1730	3.55	6.61	98		
1532		13.34	1720	1.92	6.48	98		
1535		13.31	1720	1.50	6.47	98		
1539		13.27	1720	1.30	6.45	97	0.92	

Notes / Observations (color, odor, anomalies, etc):

* Dissolved + Total Metals bottles are unpreserved *

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabbo
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: E25
Sample ID: 1016 - 23
Date: 10/28/16
Weather: sunny

137.72 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 12
Discharge 8
Pressure 30
Flow 250 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1415		14.21	1111	7.36	6.93	52		
1420		13.70	1236	3.84	6.72	61		
1423		13.05	1325	1.36	6.60	69		
1426		12.98	1325	0.68	6.58	68		
1429		12.96	1332	0.49	6.58	68		
1432		12.92	1332	0.42	6.57	67		
1435		12.97	1335	0.37	6.61	63	@ 9.2	

Notes / Observations (color, odor, anomalies, etc):

~~COD & Ammonia~~ unpreserved 250 mL ~~H2SO4 preserved~~ used instead

* Total Metals - used no preservative *

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabo
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: 57
Sample ID: 1016-24
Date: 10/ 25 /16
Weather: Sunny

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1540		begin purge						
1550		13.78	723	1.61	7.68	-153	4.60	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: EID
Sample ID: 1016 - 25
Date: 10/27/16
Weather: overcast

138.03 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 8 | Discharge 7 | Pressure 90 | Flow 250 mL/min
One Well Volume (liters) | Total Volume Bailed (liters)
Other: | Flow Setting:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
852		12.74	1441	7.55	6.79	139		
859		12.27	1570	7.41	6.95	129		
900		12.16	1650	7.21	7.03	120		
903		12.07	1670	6.38	6.96	114		
906		12.00	1670	4.00	6.84	47		
909		11.94	1690	2.30	6.77	26		
912	138.35	11.96	1700	1.75	6.73	31		
915		11.92	1700	1.55	6.71	32	1.04	

Notes / Observations (color, odor, anomalies, etc):

tdsc split as 1016-57 @ 915

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: E1S
Sample ID: 1016-26
Date: 10/26/16
Weather: cloudy

138.19 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 13
Discharge 7
Pressure 75
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1717		12.37	1151	7.92	7.03	15		
1722		12.22	1154	6.49	6.74	31		
1725		12.17	1155	6.50	6.69	42		
1728		12.15	1156	6.38	6.65	50		
1731		12.13	1157	6.30	6.61	52		
1734		12.11	1160	6.24	6.60	56		
1737	138.27	12.07	1158	6.23	6.60	59	1.61	

Notes / Observations (color, odor, anomalies, etc):

8151 taken

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | Meter: (MP-20) YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: SE1D | DTW: 140.31 | Refill: 8 | One Well Volume (liters): | Other:

Sample ID: 1016-27 | TOS: | Discharge: 7 | Flow Setting:

Date: 10/28/16 | Intake: | Pressure: 90 | Total Volume Bailed (liters):

Weather: Cloudy | BOS: | Flow: ~~350~~ mL/min 200

Total Depth:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
950		11.71	934	7.52	7.34	94		
955		11.45	932	7.02	7.30	100		
958		11.02	932	6.38	7.26	102		
1001		10.93	938	3.45	7.22	30		
1004		10.76	933	2.12	7.29	-53		
1007	140.85	10.75	937	1.70	7.33	-90	5.90	
1010		10.75	930	1.51	7.39	-106	7.46	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: SEIS
Sample ID: 1016-28
Date: 10/28/16
Weather: overcast

139.90 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill: 20
Discharge: 10
Pressure: 75
Flow: 300 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
853		11.27	840	7.30	6.49	135		
958		10.52	835	5.74	6.92	122		
901		10.49	340	5.45	6.97	118		
904		10.44	835	4.92	7.01	114		
907		10.44	836	4.62	7.03	111		
910		10.42	838	4.37	7.05	109		
913		10.43	845	4.38	7.06	106	0.76	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gaber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: W25
Sample ID: 1016-29
Date: 10/25/16
Weather: Sunny

148.50 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 7
Discharge 6
Pressure 80
Flow ~~200~~ mL/min 175 → to 125 mL/min by end

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1720		11.99	885	7.93	7.26	84		
1725		11.34	910	7.55	6.66	92		
1728		11.00	928	6.94	6.36	100		
1731		10.81	921	6.33	6.45	97		
1734		10.87	925	6.12	6.54	94		
1737		10.97	924	6.06	6.59	92	0.93	
1740	148.55	10.96	928	6.03	6.64	92		

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island County LF | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: WR1 | DTW | Refill | One Well Volume (liters) | Other:

Sample ID: 1016-30 | TOS | Discharge | Flow Setting:

Date: 10/25/16 | Intake | Pressure | Total Volume Bailed (liters)

Weather: sunny | BOS | Flow

Total Depth

Filtered? (Y) N | Locked? Y (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1627		Begin Purge						
1637		11.83	846	3.14	7.22	95	2.57	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | DTW: 145.32 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: ~~ESD~~ ESD | TOS: | MP-20 | Refill: 8 | One Well Volume (liters): | Other:

Sample ID: 1016 - 95 | Intake: | YSI | Discharge: 12 | Flow Setting:

Date: 10/26/16 | BOS: | Pressure: 100 | Total Volume Bailed (liters):

Weather: rainy | Total Depth: | Flow: 100 mL/min

Filtered? Y (N) | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1347		13.12	1053	7.68	7.16	61		
1352		12.92	1068	5.21	7.10	20		
1355		12.54	1072	2.86	7.08	-82		
1359		12.09	1086	1.36	7.05	-135		
1401		12.04	1098	0.85	7.04	-145		
1404		12.02	1098	0.72	7.04	-147		
1407	↳	12.01	1098	0.64	7.04	-149		
1410	145.32	12.02	1098	0.54	7.04	-150	1.24	

Notes / Observations (color, odor, anomalies, etc):

Edge split 1016-50 @ 1410

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County LF | DTW: 148.47 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E6D | TOS: | MP-20 | Refill: 10 | One Well Volume (liters): | Other:

Sample ID: 1016-96 | Intake: | YSI | Discharge: 10 | Flow Setting:

Date: 10/27/16 | BOS: | Pressure: 100 | Total Volume Bailed (liters):

Weather: overcast | Total Depth: | Flow: 75 mL/min

Filtered? Y (N) | Locked? Y (N) | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1012		14.90	699	3.41	7.48	-128		
1017		14.88	696	1.87	7.38	-161		
1020		14.85	685	1.34	7.35	-172		
1023		14.83	684	1.01	7.33	-177		
1026		14.81	687	0.78	7.33	-182		
1029	149.55	14.80	684	0.72	7.34	-184		
1032		14.79	690	0.67	7.34	-185	0.84	

Notes / Observations (color, odor, anomalies, etc):

Edge split as 1016-51

@ 1032

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: E7D
Sample ID: 1016-97
Date: 10/~~26~~/16 10.27.16
Weather: sunny



146.19 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10
Discharge 10
Pressure 100
Flow 75 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N * Damage? (Y) (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1400		16.42	1217	6.59	7.16	43		
1405		16.07	1384	3.97	6.77	-4		
1408		15.92	1494	2.59	6.58	-46		
1411		15.96	1610	1.74	6.48	-57		
1414	146.20	15.61	1670	1.10	6.42	-65		
1417		15.44	1700	0.92	6.40	-65		
1420		15.29	1700	0.84	6.40	-66	0.95	

Notes / Observations (color, odor, anomalies, etc):

* Flush mount filled w/ water.

Flush mount cap broken.

Sample naturally effervescent.

Truck running while sampling.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabir
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.09
Site: Island County LF
Well ID: ESD
Sample ID: 1016-98
Date: 10/26/16
Weather: rainy

149.10 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 10
Discharge 10
Pressure 100
Flow 75 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1452		11.93	578	7.62	7.65	-13		
1457		16.50	573	4.91	7.32	-8		
1500		11.29	573	2.98	7.05	-4		
1503		11.27	575	2.50	7.03	-6		
~~1506~~ 1506		11.26	578	2.18	7.02	-8		
~~1509~~ 1509	149.35	11.23	576	1.68	7.01	-11		
~~1512~~ 1512		11.22	573	1.34	7.00	-35		
1515		11.22	576	1.17	7.00	-60	1.54	

Notes / Observations (color, odor, anomalies, etc):

Edge split taken as 1016-52 @ 1515

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gaber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 042050 32.48
Site: CSWF
Well ID: E9D
Sample ID: 1016-99
Date: 10/24/2016
Weather: OVERCAST

163.71 DTW
TOS
Intake
BOS
230.19 Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 8
Discharge 12
Pressure 110
Flow ~340
One Well Volume (liters) 41.2 L
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Vol.(L)
1238	START PUMPING (TANK = 2100 psi)							
1242	WATER AT SURFACE							
1245	169.41	11.12	689	7.04	8.47	-31.6	746.8	
1250		10.69	676	2.06		-124.6	663.0	
1255								
1300	170.95	10.54	673	1.47	7.74	-134.3	827.7	6.0
1305	172.47	10.52	668	0.96	8.18	-139.9	775.0	8.0
1310	173.60	10.64	661	0.96	8.35	-140.6	825.6	9.75
1315	173.37	10.72	659	1.10	8.43	-139.4	826.9	10.5
1320	173.73	10.58	644	0.78	8.51	-147.0	720.7	12.0
1325	175.18	10.57	640	0.78	8.57	-150.0	852.1	14.0
1330	175.95	10.60	640	0.83	8.59	-149.2	648.2	15.75
1335	176.60	10.56	638	0.81	8.61	-150.6	486.4	17.25
1340		10.53	635	0.75	8.63	-153.3	317.9	19.5
1345	178.11	10.52	632	0.69	8.66	-157.0	201.2	21.0
1350	178.65	10.52	629	0.62	8.69	-161.1	195.4	23.0
1355	179.42	10.54	627	0.56	8.71	-162.8	172.9	25.0
1400	179.83	10.52	625	0.58	8.70	-163.6	132.5	26.75
1405	180.31	10.53	624	0.50	8.72	-165.5	114.4	28.5
1410	180.86	10.56	623	0.46	8.73	-166.8	158.7	30.5
1415	181.24	10.54	622	0.43	8.73	-167.4	100.5	33.0
1420	181.61	10.53	621	0.41	8.73	-168.5	63.57	35.0
1425	182.06	10.51	620	0.38	8.73	-169.4	58.36	37.0
1430	182.37	10.55	620	0.37	8.74	-170.0	56.07	39.0

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

Notes / Observations (color, odor, anomalies, etc):
09:00 PERFORM INITIAL MEASUREMENT & OBSERVATIONS
09:26 PUMP DEPLOYED: TOP of PUMP AT 226.66, OVERALL PUMP LENGTH = 46 - 3/8" w/ INLET SCREEN (INLET = 230.52).
← PH ERROR = 9.61, RE-CALIBRATING
CHANGED PUMP TO 10/10/110 PSI DUE TO DYING FLOW
BEGIN COLLECTING SAMPLE
N_2 TANK = 1100 PSI

SAMPLER: SAM ADLINGTON
Printed Name
Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04205032.48
Site: CSWF
Well ID: E-10D
Sample ID: 1816-100
Date: 10/24/2016
Weather: OVERCAST

162.86 DTW
TOS
Intake
BOS
240.65 Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 10
Pressure 110
Flow ~140
One Well Volume (liters) 48.2L
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	~~Q~~ Vol. (L)
1035	START PUMPING (TANK = 1400 psi)							
1048	WATER AT SURFACE							
1050	162.91	10.82	906	8.22	7.72	23.0	26.13	0
1055	162.93	10.54	904	5.57	8.66	-65.1	22.80	
1100	162.87	10.54	921	4.45	7.90	-86.8	20.31	
1105		10.55	990	4.89	7.91	-116.7	19.48	2
1110	162.90	10.51	966	2.59	7.86	-106.3	17.79	3
1115		10.51	980	2.14	7.87	-112.9	14.77	4
1120	162.90	10.52	992	1.90	7.89	-118.4	18.80	5.25
1125	162.91	10.45	1005	1.59	7.90	-123.5	16.48	6.25
1130		10.45	1018	1.34	7.90	-128.0		7.5
1135	163.0	10.39	1029	1.11	7.91	-131.9	15.50	9.0
1140		10.36	1035	0.90	7.93	-135.0		11.0
1145		10.36	1050	0.75	7.94	-138.6		12.75
1150	162.90	10.37	1059	0.71	7.95	-139.2	15.53	14.25
1155		10.38	1067	0.70	7.94	-139.1	14.49	
1200	162.90	10.39	1074	0.65	7.94	-139.6	12.68	16.5
1205		10.39	1080	0.68	7.94	-138.5		19.0
1210	162.91	10.38	1086	0.57	7.94	-139.1	11.66	21.0
1215	162.91	10.37	1088	0.53	7.93	-138.0	11.23	22.5
1220		10.37	1090	0.51	7.93	-137.9		24.25

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

Notes / Observations (color, odor, anomalies, etc):

09:50 PERFORM INITIAL MEASUREMENTS & BEGIN PRIMING PUMP.

10:15 PUMP DEPLOYED. TOP OF PUMP = 234.20. OVERALL PUMP LENGTH = 46' 3/8" W/ INLET SCREEN (INLET = 238.07).

CHANGE PUMP CYCLE TO 8/12/110
FLOW ~ 300 mL/min

N2 TANK NEARLY EMPTY. BEGIN SAMPLE COLLECTION (TANK = 300 psi)

SAMPLER: SAM ADLINGTON
Printed Name

Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/24/2016					
Time	10:30AM					
Weather (sky or precip, temp)	OVERCAST					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 ~~800, 100, 20, <0.1~~	
Pre-Cal Reading	1377	3.33	7.60	8.45	1100, 16.28, 0.26	
Post Cal Reading	1413	3.99	7.00	—		
Descrepancy	NONE					
Calib. Successful?	YES					
Calibration by	SAM ADDINGTON					
Instrument Type, ID	MP20	YSI 556			MicoTPW/ HACH2000	
Calibration Location	ISLAND COUNTY, COUPEVILLE SW FACILITY					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

3501

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/24/16					
Time	1000					
Weather (sky or precip, temp)	Overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1345	398	6.95			
Post Cal Reading	1413	4.01	7.00	9.29	787, 100, 20.7, 2.30	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/25/16					
Time	820					
Weather (sky or precip, temp)	partly cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1428	4.33	7.24			
Post Cal Reading	1413	4.01	7.00	9.87	848, 100, 21.2, 2.04	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/26/16					
Time	810					
Weather (sky or precip, temp)	sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1377	3.65	6.97			
Post Cal Reading	1413	4.01	7.00		781, 105, 17.3, 1.24	
Descrepancy						
Calib. Successful?						
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/27/16					
Time	745					
Weather (sky or precip, temp)	cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1428	3.99	7.05			
Post Cal Reading	1413	4.01	7.00	9.63	797, 107, 22.0, 1.20	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SKB					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/23/16					
Time	800					
Weather (sky or precip, temp)	Partly cloudy 60°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1428	4.12	7.06			
Post Cal Reading	1413	4.01	7.00	8.93	754, 99.9, 22.3, 157	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.09	**TASK NO.**	1,2,3	**DATE**	10-20-16	**PROJECT NAME**	Island County Landfill
TEMP	49	**BARO**	29.88	**WIND**	2 MPH W	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	3	Project Foreman	11	
			DAILY TOTAL	11	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	11	$203.50
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$203.50

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	13664	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2				SV LFG		100% Open 50% Open

Propane Tank Level	Propane Line PSI					
60% Full	12					

SUMMARY	1124 SDG onsite to perform the Quarterly Perimeter Gas Probe Monitoring.
1135 Calibrating the Gem – 2000.	
1151 SDG Monitoring the Perimeter Gas Probes.	
1428 SDG completed the Probe Monitoring.	
1435 Post Calibration.	
1455 SDG offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 10-20-16 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.09

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: W Barometric Pressure: 29.88"Hg

Air Temperature: 49° F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 15.0% %CO2 - 15.0% %O2 - 20.9%

Time	CH4	CO2	O2
11:35	14.9%	15.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1445	15%	14.8%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.09	**TASK NO.**	1,2,3	**DATE**	11-18-16	**PROJECT NAME**	Island County Landfill
TEMP	49	**BARO**	29.86	**WIND**	2 MPH S	**WEATHER**	Overcast

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	5		Project Foreman	5	
			DAILY TOTAL	5	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	5	$92.50
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	13664	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
0849 Blower # 1	70795	3.2	6.80’	SV	-0.5” H2O	100% Open
0849 Blower # 2	95185	4.0		LFG	1.25” H2O	50% Open

Propane Tank Level	Propane Line PSI
55% Full	12

SUMMARY	0745 SDG travel from Oak Harbor, WA. To Coupeville, WA.
0809 SDG onsite to monitor the Extraction Wells.	
0842 Calibration of the Gem – 2000.	
0849 SDG monitoring the Extraction Wells.	
1015 Completed Monitoring.	
1020 Post Calibration	
1035 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 11-18-16 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.09

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: S Barometric Pressure: 29.86 "Hg

Air Temperature: 49° F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
08:42	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1020	50.0%	34.8%	20.8%

NOTES:

APPENDIX B

2016 ANAYTICAL DATA VALIDATION AND LABORATORY REPORTS (LAB DATA REPORTS ON ATTACHED CD)

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 1Q 2016

Project Details

Project No.	04207033.09	**Site Name**	Island County Coupeville SWF
Data Validator	Stephen Palachuk	**Data Level**	Level II
Date	3/7/16	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-57130-1	Samples Arrived in good condition	Test America
580-57012-1	Samples Arrived in good condition	Test America
580-57054-1	Samples Arrived in good condition	Test America

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-57130-1	x	x	x	x	x	x	
580-57012-1	x	x	x	x	x	x	
580-57054-1	x	x	x	x	x	x	x

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-57130-1, 580-57012-1, 580-57054-1)
LCS/LCSD	Acceptable	See case narrative (580-57130-1, 580-57012-1, 580-57054-1)
Duplicates	Acceptable	See case narrative (580-57130-1, 580-57012-1, 580-57054-1)
MS/MSD	Acceptable	See case narrative (580-57130-1, 580-57012-1, 580-57054-1)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**N2D**	**N2D-Dup**	**RPD (%)**	**C1S**	**C1S-Dup**	**RPD (%)**
Chloride	mg/L	71	71	0	8.2	9.1	10.40
Sulfate	mg/L	61	61	0	340	340	0
Total Nitrate/Nitrite	mg/L	2.3	2.4	4.26	6.4	6.4	0
Calcium	mg/L	120	120	0	180	180	0
Magnesium	mg/L	82	78	5.00	77	76	1.31
Potassium	mg/L	8.8	8.4	4.65	6.4	5.9	8.13
Sodium	mg/L	44	41	7.06	34	32	6.06
Arsenic	mg/L	0.0037	0.0036	2.74	0.0016	0.0015	6.45
Barium	mg/L	0.032	0.031	3.17	0.055	0.056	1.8
Nickel	mg/L	0.0048	0.0047	2.11	0.0093	0.0092	1.08
Alkalinity	mg/L	470	480	2.11	420	410	2.41

Duplicate Evaluation							
Analyte	**Units**	**N2D**	**N2D-Dup**	**RPD (%)**	**C1S**	**C1S-Dup**	**RPD (%)**
Bicarbonate	mg/L	470	480	2.11	420	410	2.41
TDS	mg/L	690	690	0	970	980	1.03
TOC	mg/L	2.5	2.2	12.77	8.8	9.3	5.52

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
H	Sample was prepared or analyzed beyond the specific holding time	580-57012-1, 580-57054-1
*	LCS or LCSD is outside acceptance limits.	580-57012-1, 580-57054-1, 580-57130-1
*	RPD of the LCS and LCSD exceed the control limits	580-57054-1, 580-57130-1
F1	MS and/or MSD Recovery is outside acceptance limits.	580-57012-1, 580-57054-1, 580-57130-1
F5	Dup RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.	580-57054-1
E	Result exceeded calibration range	580-57012-1, 580-57054-1, 580-57130-1

Qualified Data and Usability

The laboratory did not run the trip blank as an independent sample and was not included with the VOC results.

Sample analyses with elevated RPDs (greater than 20 percent) are samples collected for unfiltered metals where variation in particulates may impact reproducibility across samples or samples were the target analyte was detected at concentrations less than 5 times the Practical Quantification Limit.

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
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Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-57012-1
Client Project/Site: Coupeville Solid Waste Facility GW

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
3/4/2016 11:02:39 AM

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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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Job ID: 580-57012-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/2/2016 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3º C, 3.4º C, 3.5º C and 4.0º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 580-211163 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0216-06 (580-57012-6), 0216-07 (580-57012-7), 0216-08 (580-57012-8), 0216-09 (580-57012-9), 0216-10 (580-57012-10) and (CCVIS 580-211163/2).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-211163 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, cis-1,3-Dichloropropene, Chlorodibromomethane, trans-1,4-Dichloro-2-butene (LCS only) and Chloromethane (LCS only). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-211075 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Reanalysis of the following samples was performed outside of the analytical holding time for confirmation purposes for 1,1,1-trichloroethane due to failure of quality control parameters in the initial analysis. 0216-08 (580-57012-8) and 0216-10 (580-57012-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 300.0: The following samples in Anion batch 160-238018 were diluted to bring the concentrations of target analytes within the calibration range: 0216-01 (580-57012-1), 0216-02 (580-57012-2), 0216-03 (580-57012-3), 0216-04 (580-57012-4), 0216-05 (580-57012-5), 0216-06 (580-57012-6), 0216-07 (580-57012-7), 0216-08 (580-57012-8), 0216-09 (580-57012-9) and 0216-10 (580-57012-10). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples in Anion batch 160-238092 were diluted to bring the concentrations of target analytes within the calibration range: 0216-09 (580-57012-9). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following matrix spike (MS) in Anion batch 160-238018 was outside control limits for Fluoride: (580-57012-F-1 MS). Sample matrix interference is suspected, because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 2540C: The following samples were analyzed just outside of analytical holding time due to system outages. 0216-01 (580-57012-1), 0216-02 (580-57012-2), 0216-03 (580-57012-3), 0216-04 (580-57012-4), 0216-05 (580-57012-5), 0216-06 (580-57012-6), 0216-07 (580-57012-7), 0216-08 (580-57012-8), 0216-09 (580-57012-9) and 0216-10 (580-57012-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-01
Date Collected: 02/01/16 11:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 17:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/11/16 17:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 17:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/11/16 17:21	1
1,1-Dichloroethane	ND		0.20		ug/L			02/11/16 17:21	1
1,1-Dichloroethene	ND		0.10		ug/L			02/11/16 17:21	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/11/16 17:21	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/11/16 17:21	1
1,2-Dibromoethane	ND		0.10		ug/L			02/11/16 17:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/11/16 17:21	1
1,2-Dichloroethane	ND		0.20		ug/L			02/11/16 17:21	1
1,2-Dichloropropane	ND		0.20		ug/L			02/11/16 17:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/11/16 17:21	1
2-Butanone	ND		15		ug/L			02/11/16 17:21	1
2-Hexanone	ND		2.0		ug/L			02/11/16 17:21	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/11/16 17:21	1
Acetone	ND		2.0		ug/L			02/11/16 17:21	1
Acrylonitrile	ND		5.0		ug/L			02/11/16 17:21	1
Benzene	ND		0.20		ug/L			02/11/16 17:21	1
Bromochloromethane	ND		0.20		ug/L			02/11/16 17:21	1
Bromodichloromethane	ND		0.20		ug/L			02/11/16 17:21	1
Bromoform	ND		0.50		ug/L			02/11/16 17:21	1
Bromomethane	ND		1.0		ug/L			02/11/16 17:21	1
Carbon disulfide	ND		0.20		ug/L			02/11/16 17:21	1
Carbon tetrachloride	ND		0.20		ug/L			02/11/16 17:21	1
Chlorobenzene	ND		0.20		ug/L			02/11/16 17:21	1
Chloroethane	ND		0.50		ug/L			02/11/16 17:21	1
Chloroform	ND		0.20		ug/L			02/11/16 17:21	1
Chloromethane	ND	*	0.30		ug/L			02/11/16 17:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 17:21	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/11/16 17:21	1
Dibromochloromethane	ND	*	0.20		ug/L			02/11/16 17:21	1
Dibromomethane	ND		0.20		ug/L			02/11/16 17:21	1
Ethylbenzene	ND		0.20		ug/L			02/11/16 17:21	1
m,p-Xylene	ND		0.50		ug/L			02/11/16 17:21	1
Methyl iodide	ND		0.50		ug/L			02/11/16 17:21	1
Methylene Chloride	ND		0.50		ug/L			02/11/16 17:21	1
o-Xylene	ND		0.50		ug/L			02/11/16 17:21	1
Styrene	ND		0.50		ug/L			02/11/16 17:21	1
Tetrachloroethene	ND		0.50		ug/L			02/11/16 17:21	1
Toluene	ND		0.20		ug/L			02/11/16 17:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 17:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/11/16 17:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/11/16 17:21	1
Trichloroethene	ND		0.20		ug/L			02/11/16 17:21	1
Trichlorofluoromethane	ND		0.50		ug/L			02/11/16 17:21	1
Vinyl acetate	ND		1.0		ug/L			02/11/16 17:21	1
Vinyl chloride	ND		0.020		ug/L			02/11/16 17:21	1

Client Sample ID: 0216-01
Date Collected: 02/01/16 11:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 128*		*02/11/16 17:21*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/11/16 17:21*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*02/11/16 17:21*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/11/16 17:21*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*02/11/16 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.10		mg/L			02/25/16 16:38	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		4.0		mg/L			02/25/16 16:51	20
Sulfate	**19**		10		mg/L			02/25/16 16:51	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**61**		1.1		mg/L		02/04/16 10:43	02/05/16 12:41	1
Iron	ND		0.30		mg/L		02/04/16 10:43	02/05/16 12:41	1
Magnesium	**41**		1.1		mg/L		02/04/16 10:43	02/05/16 12:41	1
Manganese	**0.14**		0.020		mg/L		02/04/16 10:43	02/05/16 12:41	1
Potassium	**6.3**		3.3		mg/L		02/04/16 10:43	02/05/16 12:41	1
Sodium	**25**		2.0		mg/L		02/04/16 10:43	02/05/16 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Arsenic	**0.0061**		0.0010		mg/L		02/04/16 10:43	02/12/16 01:08	1
Barium	**0.025**		0.0012		mg/L		02/04/16 10:43	02/12/16 01:08	1
Beryllium	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Cadmium	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Chromium	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Cobalt	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Copper	**0.0024**		0.0020		mg/L		02/04/16 10:43	02/12/16 01:08	1
Lead	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Nickel	ND		0.0030		mg/L		02/04/16 10:43	02/12/16 01:08	1
Selenium	ND		0.0010		mg/L		02/04/16 10:43	02/12/16 01:08	1
Silver	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Thallium	ND		0.0010		mg/L		02/04/16 10:43	02/12/16 01:08	1
Vanadium	ND		0.0040		mg/L		02/04/16 10:43	02/12/16 01:08	1
Zinc	**0.16**		0.0070		mg/L		02/04/16 10:43	02/12/16 01:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/26/16 15:21	1
Total Organic Carbon	**1.2**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-01
Date Collected: 02/01/16 11:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**380**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-02
Date Collected: 02/01/16 11:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 17:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/11/16 17:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 17:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/11/16 17:48	1
1,1-Dichloroethane	ND		0.20		ug/L			02/11/16 17:48	1
1,1-Dichloroethene	ND		0.10		ug/L			02/11/16 17:48	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/11/16 17:48	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/11/16 17:48	1
1,2-Dibromoethane	ND		0.10		ug/L			02/11/16 17:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/11/16 17:48	1
1,2-Dichloroethane	ND		0.20		ug/L			02/11/16 17:48	1
1,2-Dichloropropane	ND		0.20		ug/L			02/11/16 17:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/11/16 17:48	1
2-Butanone	ND		15		ug/L			02/11/16 17:48	1
2-Hexanone	ND		2.0		ug/L			02/11/16 17:48	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/11/16 17:48	1
Acetone	ND		2.0		ug/L			02/11/16 17:48	1
Acrylonitrile	ND		5.0		ug/L			02/11/16 17:48	1
Benzene	ND		0.20		ug/L			02/11/16 17:48	1
Bromochloromethane	ND		0.20		ug/L			02/11/16 17:48	1
Bromodichloromethane	ND		0.20		ug/L			02/11/16 17:48	1
Bromoform	ND		0.50		ug/L			02/11/16 17:48	1
Bromomethane	ND		1.0		ug/L			02/11/16 17:48	1
Carbon disulfide	ND		0.20		ug/L			02/11/16 17:48	1
Carbon tetrachloride	ND		0.20		ug/L			02/11/16 17:48	1
Chlorobenzene	ND		0.20		ug/L			02/11/16 17:48	1
Chloroethane	ND		0.50		ug/L			02/11/16 17:48	1
Chloroform	ND		0.20		ug/L			02/11/16 17:48	1
Chloromethane	ND	*	0.30		ug/L			02/11/16 17:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 17:48	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/11/16 17:48	1
Dibromochloromethane	ND	*	0.20		ug/L			02/11/16 17:48	1
Dibromomethane	ND		0.20		ug/L			02/11/16 17:48	1
Ethylbenzene	ND		0.20		ug/L			02/11/16 17:48	1
m,p-Xylene	ND		0.50		ug/L			02/11/16 17:48	1
Methyl iodide	ND		0.50		ug/L			02/11/16 17:48	1
Methylene Chloride	ND		0.50		ug/L			02/11/16 17:48	1
o-Xylene	ND		0.50		ug/L			02/11/16 17:48	1
Styrene	ND		0.50		ug/L			02/11/16 17:48	1
Tetrachloroethene	ND		0.50		ug/L			02/11/16 17:48	1
Toluene	ND		0.20		ug/L			02/11/16 17:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 17:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/11/16 17:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/11/16 17:48	1
Trichloroethene	ND		0.20		ug/L			02/11/16 17:48	1
Trichlorofluoromethane	ND		0.50		ug/L			02/11/16 17:48	1
Vinyl acetate	ND		1.0		ug/L			02/11/16 17:48	1
Vinyl chloride	ND		0.020		ug/L			02/11/16 17:48	1

Client Sample ID: 0216-02
Date Collected: 02/01/16 11:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 128*		*02/11/16 17:48*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/11/16 17:48*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/11/16 17:48*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/11/16 17:48*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*02/11/16 17:48*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.12**		0.10		mg/L			02/25/16 17:59	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42**		4.0		mg/L			02/25/16 18:12	20
Sulfate	**18**		10		mg/L			02/25/16 18:12	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**40**		1.1		mg/L		02/04/16 11:44	02/05/16 13:30	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:30	1
Magnesium	**58**		1.1		mg/L		02/04/16 11:44	02/05/16 13:30	1
Manganese	ND		0.020		mg/L		02/04/16 11:44	02/05/16 13:30	1
Potassium	**9.9**		3.3		mg/L		02/04/16 11:44	02/05/16 13:30	1
Sodium	**29**		2.0		mg/L		02/04/16 11:44	02/05/16 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Arsenic	**0.0049**		0.0010		mg/L		02/04/16 11:44	02/11/16 23:23	1
Barium	**0.040**		0.0012		mg/L		02/04/16 11:44	02/11/16 23:23	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Chromium	**0.00046**		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Copper	**0.29**		0.0020		mg/L		02/04/16 11:44	02/11/16 23:23	1
Lead	**0.021**		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/11/16 23:23	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:23	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:23	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/11/16 23:23	1
Zinc	**0.34**		0.0070		mg/L		02/04/16 11:44	02/11/16 23:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	**0.34**		0.050		mg/L			02/26/16 15:33	1
Total Organic Carbon	**1.9**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-02
Date Collected: 02/01/16 11:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**410**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-03
Date Collected: 02/01/16 12:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 18:18	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/11/16 18:18	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 18:18	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/11/16 18:18	1
1,1-Dichloroethane	ND		0.20		ug/L			02/11/16 18:18	1
1,1-Dichloroethene	ND		0.10		ug/L			02/11/16 18:18	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/11/16 18:18	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/11/16 18:18	1
1,2-Dibromoethane	ND		0.10		ug/L			02/11/16 18:18	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/11/16 18:18	1
1,2-Dichloroethane	ND		0.20		ug/L			02/11/16 18:18	1
1,2-Dichloropropane	ND		0.20		ug/L			02/11/16 18:18	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/11/16 18:18	1
2-Butanone	ND		15		ug/L			02/11/16 18:18	1
2-Hexanone	ND		2.0		ug/L			02/11/16 18:18	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/11/16 18:18	1
Acetone	ND		2.0		ug/L			02/11/16 18:18	1
Acrylonitrile	ND		5.0		ug/L			02/11/16 18:18	1
Benzene	ND		0.20		ug/L			02/11/16 18:18	1
Bromochloromethane	ND		0.20		ug/L			02/11/16 18:18	1
Bromodichloromethane	ND		0.20		ug/L			02/11/16 18:18	1
Bromoform	ND		0.50		ug/L			02/11/16 18:18	1
Bromomethane	ND		1.0		ug/L			02/11/16 18:18	1
Carbon disulfide	ND		0.20		ug/L			02/11/16 18:18	1
Carbon tetrachloride	ND		0.20		ug/L			02/11/16 18:18	1
Chlorobenzene	ND		0.20		ug/L			02/11/16 18:18	1
Chloroethane	ND		0.50		ug/L			02/11/16 18:18	1
Chloroform	ND		0.20		ug/L			02/11/16 18:18	1
Chloromethane	ND	*	0.30		ug/L			02/11/16 18:18	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 18:18	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/11/16 18:18	1
Dibromochloromethane	ND	*	0.20		ug/L			02/11/16 18:18	1
Dibromomethane	ND		0.20		ug/L			02/11/16 18:18	1
Ethylbenzene	ND		0.20		ug/L			02/11/16 18:18	1
m,p-Xylene	ND		0.50		ug/L			02/11/16 18:18	1
Methyl iodide	ND		0.50		ug/L			02/11/16 18:18	1
Methylene Chloride	ND		0.50		ug/L			02/11/16 18:18	1
o-Xylene	ND		0.50		ug/L			02/11/16 18:18	1
Styrene	ND		0.50		ug/L			02/11/16 18:18	1
Tetrachloroethene	ND		0.50		ug/L			02/11/16 18:18	1
Toluene	ND		0.20		ug/L			02/11/16 18:18	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 18:18	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/11/16 18:18	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/11/16 18:18	1
Trichloroethene	ND		0.20		ug/L			02/11/16 18:18	1
Trichlorofluoromethane	ND		0.50		ug/L			02/11/16 18:18	1
Vinyl acetate	ND		1.0		ug/L			02/11/16 18:18	1
Vinyl chloride	ND		0.020		ug/L			02/11/16 18:18	1

Client Sample ID: 0216-03
Date Collected: 02/01/16 12:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*		*02/11/16 18:18*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/11/16 18:18*	*1*
Dibromofluoromethane (Surr)	*99*		*85 - 115*		*02/11/16 18:18*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/11/16 18:18*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*02/11/16 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 18:52	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56**		4.0		mg/L			02/25/16 19:06	20
Sulfate	**39**		10		mg/L			02/25/16 19:06	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**78**		1.1		mg/L		02/04/16 11:44	02/05/16 13:34	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:34	1
Magnesium	**50**		1.1		mg/L		02/04/16 11:44	02/05/16 13:34	1
Manganese	**0.12**		0.020		mg/L		02/04/16 11:44	02/05/16 13:34	1
Potassium	**6.2**		3.3		mg/L		02/04/16 11:44	02/05/16 13:34	1
Sodium	**33**		2.0		mg/L		02/04/16 11:44	02/05/16 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Arsenic	**0.0063**		0.0010		mg/L		02/04/16 11:44	02/11/16 23:59	1
Barium	**0.035**		0.0012		mg/L		02/04/16 11:44	02/11/16 23:59	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Chromium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/11/16 23:59	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/11/16 23:59	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:59	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:59	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/11/16 23:59	1
Zinc	**0.10**		0.0070		mg/L		02/04/16 11:44	02/11/16 23:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/26/16 15:35	1
Total Organic Carbon	**2.0**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-03
Date Collected: 02/01/16 12:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**490**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-04
Date Collected: 02/01/16 12:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 18:45	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/11/16 18:45	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 18:45	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/11/16 18:45	1
1,1-Dichloroethane	ND		0.20		ug/L			02/11/16 18:45	1
1,1-Dichloroethene	ND		0.10		ug/L			02/11/16 18:45	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/11/16 18:45	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/11/16 18:45	1
1,2-Dibromoethane	ND		0.10		ug/L			02/11/16 18:45	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/11/16 18:45	1
1,2-Dichloroethane	ND		0.20		ug/L			02/11/16 18:45	1
1,2-Dichloropropane	ND		0.20		ug/L			02/11/16 18:45	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/11/16 18:45	1
2-Butanone	ND		15		ug/L			02/11/16 18:45	1
2-Hexanone	ND		2.0		ug/L			02/11/16 18:45	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/11/16 18:45	1
Acetone	ND		2.0		ug/L			02/11/16 18:45	1
Acrylonitrile	ND		5.0		ug/L			02/11/16 18:45	1
Benzene	ND		0.20		ug/L			02/11/16 18:45	1
Bromochloromethane	ND		0.20		ug/L			02/11/16 18:45	1
Bromodichloromethane	ND		0.20		ug/L			02/11/16 18:45	1
Bromoform	ND		0.50		ug/L			02/11/16 18:45	1
Bromomethane	ND		1.0		ug/L			02/11/16 18:45	1
Carbon disulfide	ND		0.20		ug/L			02/11/16 18:45	1
Carbon tetrachloride	ND		0.20		ug/L			02/11/16 18:45	1
Chlorobenzene	ND		0.20		ug/L			02/11/16 18:45	1
Chloroethane	ND		0.50		ug/L			02/11/16 18:45	1
Chloroform	ND		0.20		ug/L			02/11/16 18:45	1
Chloromethane	ND	*	0.30		ug/L			02/11/16 18:45	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 18:45	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/11/16 18:45	1
Dibromochloromethane	ND	*	0.20		ug/L			02/11/16 18:45	1
Dibromomethane	ND		0.20		ug/L			02/11/16 18:45	1
Ethylbenzene	ND		0.20		ug/L			02/11/16 18:45	1
m,p-Xylene	ND		0.50		ug/L			02/11/16 18:45	1
Methyl iodide	ND		0.50		ug/L			02/11/16 18:45	1
Methylene Chloride	ND		0.50		ug/L			02/11/16 18:45	1
o-Xylene	ND		0.50		ug/L			02/11/16 18:45	1
Styrene	ND		0.50		ug/L			02/11/16 18:45	1
Tetrachloroethene	ND		0.50		ug/L			02/11/16 18:45	1
Toluene	ND		0.20		ug/L			02/11/16 18:45	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 18:45	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/11/16 18:45	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/11/16 18:45	1
Trichloroethene	ND		0.20		ug/L			02/11/16 18:45	1
Trichlorofluoromethane	ND		0.50		ug/L			02/11/16 18:45	1
Vinyl acetate	ND		1.0		ug/L			02/11/16 18:45	1
Vinyl chloride	ND		0.020		ug/L			02/11/16 18:45	1

Client Sample ID: 0216-04
Date Collected: 02/01/16 12:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 128*		*02/11/16 18:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/11/16 18:45*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*02/11/16 18:45*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*02/11/16 18:45*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 127*		*02/11/16 18:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 19:19	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57**		4.0		mg/L			02/25/16 19:33	20
Sulfate	**38**		10		mg/L			02/25/16 19:33	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**81**		1.1		mg/L		02/04/16 11:44	02/05/16 13:37	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:37	1
Magnesium	**48**		1.1		mg/L		02/04/16 11:44	02/05/16 13:37	1
Manganese	ND		0.020		mg/L		02/04/16 11:44	02/05/16 13:37	1
Potassium	**5.4**		3.3		mg/L		02/04/16 11:44	02/05/16 13:37	1
Sodium	**33**		2.0		mg/L		02/04/16 11:44	02/05/16 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Arsenic	**0.0034**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:04	1
Barium	**0.024**		0.0012		mg/L		02/04/16 11:44	02/12/16 00:04	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Chromium	**0.0013**		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Copper	**0.045**		0.0020		mg/L		02/04/16 11:44	02/12/16 00:04	1
Lead	**0.00049**		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/12/16 00:04	1
Selenium	**0.0013**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:04	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:04	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/12/16 00:04	1
Zinc	**0.083**		0.0070		mg/L		02/04/16 11:44	02/12/16 00:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	**1.3**		0.050		mg/L			02/26/16 15:37	1
Total Organic Carbon	**1.9**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-04
Date Collected: 02/01/16 12:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**480**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-05
Date Collected: 02/01/16 14:19
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 19:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/11/16 19:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 19:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/11/16 19:12	1
1,1-Dichloroethane	ND		0.20		ug/L			02/11/16 19:12	1
1,1-Dichloroethene	ND		0.10		ug/L			02/11/16 19:12	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/11/16 19:12	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/11/16 19:12	1
1,2-Dibromoethane	ND		0.10		ug/L			02/11/16 19:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/11/16 19:12	1
1,2-Dichloroethane	ND		0.20		ug/L			02/11/16 19:12	1
1,2-Dichloropropane	ND		0.20		ug/L			02/11/16 19:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/11/16 19:12	1
2-Butanone	ND		15		ug/L			02/11/16 19:12	1
2-Hexanone	ND		2.0		ug/L			02/11/16 19:12	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/11/16 19:12	1
Acetone	ND		2.0		ug/L			02/11/16 19:12	1
Acrylonitrile	ND		5.0		ug/L			02/11/16 19:12	1
Benzene	ND		0.20		ug/L			02/11/16 19:12	1
Bromochloromethane	ND		0.20		ug/L			02/11/16 19:12	1
Bromodichloromethane	ND		0.20		ug/L			02/11/16 19:12	1
Bromoform	ND		0.50		ug/L			02/11/16 19:12	1
Bromomethane	ND		1.0		ug/L			02/11/16 19:12	1
Carbon disulfide	ND		0.20		ug/L			02/11/16 19:12	1
Carbon tetrachloride	ND		0.20		ug/L			02/11/16 19:12	1
Chlorobenzene	ND		0.20		ug/L			02/11/16 19:12	1
Chloroethane	ND		0.50		ug/L			02/11/16 19:12	1
Chloroform	ND		0.20		ug/L			02/11/16 19:12	1
Chloromethane	ND	*	0.30		ug/L			02/11/16 19:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 19:12	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/11/16 19:12	1
Dibromochloromethane	ND	*	0.20		ug/L			02/11/16 19:12	1
Dibromomethane	ND		0.20		ug/L			02/11/16 19:12	1
Ethylbenzene	ND		0.20		ug/L			02/11/16 19:12	1
m,p-Xylene	ND		0.50		ug/L			02/11/16 19:12	1
Methyl iodide	ND		0.50		ug/L			02/11/16 19:12	1
Methylene Chloride	ND		0.50		ug/L			02/11/16 19:12	1
o-Xylene	ND		0.50		ug/L			02/11/16 19:12	1
Styrene	ND		0.50		ug/L			02/11/16 19:12	1
Tetrachloroethene	ND		0.50		ug/L			02/11/16 19:12	1
Toluene	ND		0.20		ug/L			02/11/16 19:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 19:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/11/16 19:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/11/16 19:12	1
Trichloroethene	ND		0.20		ug/L			02/11/16 19:12	1
Trichlorofluoromethane	ND		0.50		ug/L			02/11/16 19:12	1
Vinyl acetate	ND		1.0		ug/L			02/11/16 19:12	1
Vinyl chloride	ND		0.020		ug/L			02/11/16 19:12	1

Client Sample ID: 0216-05
Date Collected: 02/01/16 14:19
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 128*		*02/11/16 19:12*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/11/16 19:12*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*02/11/16 19:12*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/11/16 19:12*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*02/11/16 19:12*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 19:46	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37**		4.0		mg/L			02/25/16 19:59	20
Sulfate	**22**		10		mg/L			02/25/16 19:59	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**70**		1.1		mg/L		02/04/16 11:44	02/05/16 13:40	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:40	1
Magnesium	**27**		1.1		mg/L		02/04/16 11:44	02/05/16 13:40	1
Manganese	**0.028**		0.020		mg/L		02/04/16 11:44	02/05/16 13:40	1
Potassium	**6.1**		3.3		mg/L		02/04/16 11:44	02/05/16 13:40	1
Sodium	**22**		2.0		mg/L		02/04/16 11:44	02/05/16 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Arsenic	**0.0084**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:08	1
Barium	**0.029**		0.0012		mg/L		02/04/16 11:44	02/12/16 00:08	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Chromium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/12/16 00:08	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/12/16 00:08	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:08	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:08	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/12/16 00:08	1
Zinc	ND		0.0070		mg/L		02/04/16 11:44	02/12/16 00:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/26/16 15:39	1
Total Organic Carbon	ND		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-05
Date Collected: 02/01/16 14:19
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**370**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-06
Date Collected: 02/01/16 15:00
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 11:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/12/16 11:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 11:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/12/16 11:25	1
1,1-Dichloroethane	ND		0.20		ug/L			02/12/16 11:25	1
1,1-Dichloroethene	ND		0.10		ug/L			02/12/16 11:25	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/12/16 11:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/12/16 11:25	1
1,2-Dibromoethane	ND		0.10		ug/L			02/12/16 11:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/12/16 11:25	1
1,2-Dichloroethane	ND		0.20		ug/L			02/12/16 11:25	1
1,2-Dichloropropane	ND		0.20		ug/L			02/12/16 11:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/12/16 11:25	1
2-Butanone	ND		15		ug/L			02/12/16 11:25	1
2-Hexanone	ND		2.0		ug/L			02/12/16 11:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/12/16 11:25	1
Acetone	ND		2.0		ug/L			02/12/16 11:25	1
Acrylonitrile	ND		5.0		ug/L			02/12/16 11:25	1
Benzene	ND		0.20		ug/L			02/12/16 11:25	1
Bromochloromethane	ND		0.20		ug/L			02/12/16 11:25	1
Bromodichloromethane	ND		0.20		ug/L			02/12/16 11:25	1
Bromoform	ND		0.50		ug/L			02/12/16 11:25	1
Bromomethane	ND		1.0		ug/L			02/12/16 11:25	1
Carbon disulfide	ND		0.20		ug/L			02/12/16 11:25	1
Carbon tetrachloride	ND		0.20		ug/L			02/12/16 11:25	1
Chlorobenzene	ND		0.20		ug/L			02/12/16 11:25	1
Chloroethane	ND		0.50		ug/L			02/12/16 11:25	1
Chloroform	ND		0.20		ug/L			02/12/16 11:25	1
Chloromethane	ND	*	0.30		ug/L			02/12/16 11:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 11:25	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/12/16 11:25	1
Dibromochloromethane	ND	*	0.20		ug/L			02/12/16 11:25	1
Dibromomethane	ND		0.20		ug/L			02/12/16 11:25	1
Ethylbenzene	ND		0.20		ug/L			02/12/16 11:25	1
m,p-Xylene	ND		0.50		ug/L			02/12/16 11:25	1
Methyl iodide	ND		0.50		ug/L			02/12/16 11:25	1
Methylene Chloride	ND		0.50		ug/L			02/12/16 11:25	1
o-Xylene	ND		0.50		ug/L			02/12/16 11:25	1
Styrene	ND		0.50		ug/L			02/12/16 11:25	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 11:25	1
Toluene	ND		0.20		ug/L			02/12/16 11:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 11:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/12/16 11:25	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/12/16 11:25	1
Trichloroethene	ND		0.20		ug/L			02/12/16 11:25	1
Trichlorofluoromethane	ND		0.50		ug/L			02/12/16 11:25	1
Vinyl acetate	ND		1.0		ug/L			02/12/16 11:25	1
Vinyl chloride	ND		0.020		ug/L			02/12/16 11:25	1

Client Sample ID: 0216-06
Date Collected: 02/01/16 15:00
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 128*		*02/12/16 11:25*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*		*02/12/16 11:25*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*02/12/16 11:25*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/12/16 11:25*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 127*		*02/12/16 11:25*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.12**		0.10		mg/L			02/25/16 20:13	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71**		4.0		mg/L			02/25/16 20:26	20
Sulfate	**31**		10		mg/L			02/25/16 20:26	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**57**		1.1		mg/L		02/04/16 11:44	02/05/16 13:43	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:43	1
Magnesium	**74**		1.1		mg/L		02/04/16 11:44	02/05/16 13:43	1
Manganese	**0.16**		0.020		mg/L		02/04/16 11:44	02/05/16 13:43	1
Potassium	**10**		3.3		mg/L		02/04/16 11:44	02/05/16 13:43	1
Sodium	**45**		2.0		mg/L		02/04/16 11:44	02/05/16 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Arsenic	**0.0079**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:13	1
Barium	**0.068**		0.0012		mg/L		02/04/16 11:44	02/12/16 00:13	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Chromium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/12/16 00:13	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/12/16 00:13	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:13	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:13	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/12/16 00:13	1
Zinc	ND		0.0070		mg/L		02/04/16 11:44	02/12/16 00:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/26/16 15:41	1
Total Organic Carbon	**2.4**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-06
Date Collected: 02/01/16 15:00
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-6
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**530**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-07
Date Collected: 02/01/16 15:23
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 11:52	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/12/16 11:52	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 11:52	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/12/16 11:52	1
1,1-Dichloroethane	ND		0.20		ug/L			02/12/16 11:52	1
1,1-Dichloroethene	ND		0.10		ug/L			02/12/16 11:52	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/12/16 11:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/12/16 11:52	1
1,2-Dibromoethane	ND		0.10		ug/L			02/12/16 11:52	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/12/16 11:52	1
1,2-Dichloroethane	ND		0.20		ug/L			02/12/16 11:52	1
1,2-Dichloropropane	ND		0.20		ug/L			02/12/16 11:52	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/12/16 11:52	1
2-Butanone	ND		15		ug/L			02/12/16 11:52	1
2-Hexanone	ND		2.0		ug/L			02/12/16 11:52	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/12/16 11:52	1
Acetone	ND		2.0		ug/L			02/12/16 11:52	1
Acrylonitrile	ND		5.0		ug/L			02/12/16 11:52	1
Benzene	ND		0.20		ug/L			02/12/16 11:52	1
Bromochloromethane	ND		0.20		ug/L			02/12/16 11:52	1
Bromodichloromethane	ND		0.20		ug/L			02/12/16 11:52	1
Bromoform	ND		0.50		ug/L			02/12/16 11:52	1
Bromomethane	ND		1.0		ug/L			02/12/16 11:52	1
Carbon disulfide	ND		0.20		ug/L			02/12/16 11:52	1
Carbon tetrachloride	ND		0.20		ug/L			02/12/16 11:52	1
Chlorobenzene	ND		0.20		ug/L			02/12/16 11:52	1
Chloroethane	ND		0.50		ug/L			02/12/16 11:52	1
Chloroform	ND		0.20		ug/L			02/12/16 11:52	1
Chloromethane	ND	*	0.30		ug/L			02/12/16 11:52	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 11:52	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/12/16 11:52	1
Dibromochloromethane	ND	*	0.20		ug/L			02/12/16 11:52	1
Dibromomethane	ND		0.20		ug/L			02/12/16 11:52	1
Ethylbenzene	ND		0.20		ug/L			02/12/16 11:52	1
m,p-Xylene	ND		0.50		ug/L			02/12/16 11:52	1
Methyl iodide	ND		0.50		ug/L			02/12/16 11:52	1
Methylene Chloride	ND		0.50		ug/L			02/12/16 11:52	1
o-Xylene	ND		0.50		ug/L			02/12/16 11:52	1
Styrene	ND		0.50		ug/L			02/12/16 11:52	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 11:52	1
Toluene	ND		0.20		ug/L			02/12/16 11:52	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 11:52	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/12/16 11:52	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/12/16 11:52	1
Trichloroethene	ND		0.20		ug/L			02/12/16 11:52	1
Trichlorofluoromethane	**1.2**		0.50		ug/L			02/12/16 11:52	1
Vinyl acetate	ND		1.0		ug/L			02/12/16 11:52	1
Vinyl chloride	ND		0.020		ug/L			02/12/16 11:52	1

Client Sample ID: 0216-07
Date Collected: 02/01/16 15:23
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 128*		*02/12/16 11:52*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/12/16 11:52*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*02/12/16 11:52*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*02/12/16 11:52*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 127*		*02/12/16 11:52*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 20:40	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39**		4.0		mg/L			02/25/16 20:53	20
Sulfate	**42**		10		mg/L			02/25/16 20:53	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		02/04/16 11:44	02/05/16 13:47	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:47	1
Magnesium	**50**		1.1		mg/L		02/04/16 11:44	02/05/16 13:47	1
Manganese	ND		0.020		mg/L		02/04/16 11:44	02/05/16 13:47	1
Potassium	**6.1**		3.3		mg/L		02/04/16 11:44	02/05/16 13:47	1
Sodium	**28**		2.0		mg/L		02/04/16 11:44	02/05/16 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Arsenic	**0.0028**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:17	1
Barium	**0.037**		0.0012		mg/L		02/04/16 11:44	02/12/16 00:17	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Chromium	**0.011**		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/12/16 00:17	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/12/16 00:17	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:17	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:17	1
Vanadium	**0.0061**		0.0040		mg/L		02/04/16 11:44	02/12/16 00:17	1
Zinc	ND		0.0070		mg/L		02/04/16 11:44	02/12/16 00:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	**5.5**		0.25		mg/L			02/29/16 16:37	5
Total Organic Carbon	**1.3**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**450**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**450**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-07
Date Collected: 02/01/16 15:23
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**630**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-08
Date Collected: 02/01/16 16:10
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 12:19	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 12:19	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/12/16 12:19	1
1,1-Dichloroethane	ND		0.20		ug/L			02/12/16 12:19	1
1,1-Dichloroethene	ND		0.10		ug/L			02/12/16 12:19	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/12/16 12:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/12/16 12:19	1
1,2-Dibromoethane	ND		0.10		ug/L			02/12/16 12:19	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/12/16 12:19	1
1,2-Dichloroethane	ND		0.20		ug/L			02/12/16 12:19	1
1,2-Dichloropropane	ND		0.20		ug/L			02/12/16 12:19	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/12/16 12:19	1
2-Butanone	ND		15		ug/L			02/12/16 12:19	1
2-Hexanone	ND		2.0		ug/L			02/12/16 12:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/12/16 12:19	1
Acetone	ND		2.0		ug/L			02/12/16 12:19	1
Acrylonitrile	ND		5.0		ug/L			02/12/16 12:19	1
Benzene	ND		0.20		ug/L			02/12/16 12:19	1
Bromochloromethane	ND		0.20		ug/L			02/12/16 12:19	1
Bromodichloromethane	ND		0.20		ug/L			02/12/16 12:19	1
Bromoform	ND		0.50		ug/L			02/12/16 12:19	1
Bromomethane	ND		1.0		ug/L			02/12/16 12:19	1
Carbon disulfide	ND		0.20		ug/L			02/12/16 12:19	1
Carbon tetrachloride	ND		0.20		ug/L			02/12/16 12:19	1
Chlorobenzene	ND		0.20		ug/L			02/12/16 12:19	1
Chloroethane	ND		0.50		ug/L			02/12/16 12:19	1
Chloroform	ND		0.20		ug/L			02/12/16 12:19	1
Chloromethane	ND	*	0.30		ug/L			02/12/16 12:19	1
cis-1,2-Dichloroethene	**0.42**		0.20		ug/L			02/12/16 12:19	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/12/16 12:19	1
Dibromochloromethane	ND	*	0.20		ug/L			02/12/16 12:19	1
Dibromomethane	ND		0.20		ug/L			02/12/16 12:19	1
Ethylbenzene	ND		0.20		ug/L			02/12/16 12:19	1
m,p-Xylene	ND		0.50		ug/L			02/12/16 12:19	1
Methyl iodide	ND		0.50		ug/L			02/12/16 12:19	1
Methylene Chloride	ND		0.50		ug/L			02/12/16 12:19	1
o-Xylene	ND		0.50		ug/L			02/12/16 12:19	1
Styrene	ND		0.50		ug/L			02/12/16 12:19	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 12:19	1
Toluene	ND		0.20		ug/L			02/12/16 12:19	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 12:19	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/12/16 12:19	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/12/16 12:19	1
Trichloroethene	**0.25**		0.20		ug/L			02/12/16 12:19	1
Trichlorofluoromethane	**6.2**		0.50		ug/L			02/12/16 12:19	1
Vinyl acetate	ND		1.0		ug/L			02/12/16 12:19	1
Vinyl chloride	ND		0.020		ug/L			02/12/16 12:19	1

Client Sample ID: 0216-08
Date Collected: 02/01/16 16:10
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 128*		*02/12/16 12:19*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/12/16 12:19*	*1*
Dibromofluoromethane (Surr)	*99*		*85 - 115*		*02/12/16 12:19*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/12/16 12:19*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 127*		*02/12/16 12:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.76**	**H**	0.20		ug/L			02/23/16 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 128*		*02/23/16 16:56*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/23/16 16:56*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/23/16 16:56*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*02/23/16 16:56*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 127*		*02/23/16 16:56*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 21:33	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.2**		4.0		mg/L			02/25/16 21:47	20
Sulfate	**340**		10		mg/L			02/25/16 21:47	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		02/04/16 11:44	02/05/16 13:50	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 13:50	1
Magnesium	**77**		1.1		mg/L		02/04/16 11:44	02/05/16 13:50	1
Manganese	ND		0.020		mg/L		02/04/16 11:44	02/05/16 13:50	1
Potassium	**6.4**		3.3		mg/L		02/04/16 11:44	02/05/16 13:50	1
Sodium	**34**		2.0		mg/L		02/04/16 11:44	02/05/16 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Arsenic	**0.0016**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:22	1
Barium	**0.055**		0.0012		mg/L		02/04/16 11:44	02/12/16 00:22	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Chromium	**0.010**		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/12/16 00:22	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Nickel	**0.0093**		0.0030		mg/L		02/04/16 11:44	02/12/16 00:22	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:22	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:22	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:22	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/12/16 00:22	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-08
Date Collected: 02/01/16 16:10
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.0070		mg/L		02/04/16 11:44	02/12/16 00:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	**6.4**		0.25		mg/L			02/29/16 16:39	5
Total Organic Carbon	**8.8**		1.0		mg/L			02/04/16 20:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**420**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**420**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**970**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	**20**		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-09
Date Collected: 02/01/16 16:25
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 12:47	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/12/16 12:47	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 12:47	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/12/16 12:47	1
1,1-Dichloroethane	ND		0.20		ug/L			02/12/16 12:47	1
1,1-Dichloroethene	ND		0.10		ug/L			02/12/16 12:47	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/12/16 12:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/12/16 12:47	1
1,2-Dibromoethane	ND		0.10		ug/L			02/12/16 12:47	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/12/16 12:47	1
1,2-Dichloroethane	ND		0.20		ug/L			02/12/16 12:47	1
1,2-Dichloropropane	ND		0.20		ug/L			02/12/16 12:47	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/12/16 12:47	1
2-Butanone	ND		15		ug/L			02/12/16 12:47	1
2-Hexanone	ND		2.0		ug/L			02/12/16 12:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/12/16 12:47	1
Acetone	ND		2.0		ug/L			02/12/16 12:47	1
Acrylonitrile	ND		5.0		ug/L			02/12/16 12:47	1
Benzene	ND		0.20		ug/L			02/12/16 12:47	1
Bromochloromethane	ND		0.20		ug/L			02/12/16 12:47	1
Bromodichloromethane	ND		0.20		ug/L			02/12/16 12:47	1
Bromoform	ND		0.50		ug/L			02/12/16 12:47	1
Bromomethane	ND		1.0		ug/L			02/12/16 12:47	1
Carbon disulfide	ND		0.20		ug/L			02/12/16 12:47	1
Carbon tetrachloride	ND		0.20		ug/L			02/12/16 12:47	1
Chlorobenzene	ND		0.20		ug/L			02/12/16 12:47	1
Chloroethane	ND		0.50		ug/L			02/12/16 12:47	1
Chloroform	ND		0.20		ug/L			02/12/16 12:47	1
Chloromethane	ND	*	0.30		ug/L			02/12/16 12:47	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 12:47	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/12/16 12:47	1
Dibromochloromethane	ND	*	0.20		ug/L			02/12/16 12:47	1
Dibromomethane	ND		0.20		ug/L			02/12/16 12:47	1
Ethylbenzene	ND		0.20		ug/L			02/12/16 12:47	1
m,p-Xylene	ND		0.50		ug/L			02/12/16 12:47	1
Methyl iodide	ND		0.50		ug/L			02/12/16 12:47	1
Methylene Chloride	ND		0.50		ug/L			02/12/16 12:47	1
o-Xylene	ND		0.50		ug/L			02/12/16 12:47	1
Styrene	ND		0.50		ug/L			02/12/16 12:47	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 12:47	1
Toluene	ND		0.20		ug/L			02/12/16 12:47	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 12:47	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/12/16 12:47	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/12/16 12:47	1
Trichloroethene	ND		0.20		ug/L			02/12/16 12:47	1
Trichlorofluoromethane	ND		0.50		ug/L			02/12/16 12:47	1
Vinyl acetate	ND		1.0		ug/L			02/12/16 12:47	1
Vinyl chloride	ND		0.020		ug/L			02/12/16 12:47	1

Client Sample ID: 0216-09
Date Collected: 02/01/16 16:25
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 128*		*02/12/16 12:47*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/12/16 12:47*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*02/12/16 12:47*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/12/16 12:47*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*02/12/16 12:47*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 22:00	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**130**		10		mg/L			02/25/16 22:14	20

Method: 300.0 - Anions, Ion Chromatography - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		10		mg/L			02/27/16 00:40	50

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		02/04/16 11:44	02/05/16 13:53	1
Iron	**0.43**		0.30		mg/L		02/04/16 11:44	02/05/16 13:53	1
Magnesium	**110**		1.1		mg/L		02/04/16 11:44	02/05/16 13:53	1
Manganese	**0.29**		0.020		mg/L		02/04/16 11:44	02/05/16 13:53	1
Potassium	**10**		3.3		mg/L		02/04/16 11:44	02/05/16 13:53	1
Sodium	**50**		2.0		mg/L		02/04/16 11:44	02/05/16 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Arsenic	**0.0057**		0.0010		mg/L		02/04/16 11:44	02/12/16 00:27	1
Barium	**0.12**		0.0012		mg/L		02/04/16 11:44	02/12/16 00:27	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Chromium	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/12/16 00:27	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Nickel	**0.0096**		0.0030		mg/L		02/04/16 11:44	02/12/16 00:27	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:27	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/12/16 00:27	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/12/16 00:27	1
Zinc	ND		0.0070		mg/L		02/04/16 11:44	02/12/16 00:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/26/16 15:47	1
Total Organic Carbon	**4.1**		1.0		mg/L			02/15/16 13:07	1

Client Sample Results

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-09
Date Collected: 02/01/16 16:25
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-9
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**490**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**890**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	**10**		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client Sample ID: 0216-10
Date Collected: 02/01/16 16:30
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 13:14	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/12/16 13:14	1
1,1-Dichloroethane	ND		0.20		ug/L			02/12/16 13:14	1
1,1-Dichloroethene	**0.14**		0.10		ug/L			02/12/16 13:14	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/12/16 13:14	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/12/16 13:14	1
1,2-Dibromoethane	ND		0.10		ug/L			02/12/16 13:14	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/12/16 13:14	1
1,2-Dichloroethane	ND		0.20		ug/L			02/12/16 13:14	1
1,2-Dichloropropane	ND		0.20		ug/L			02/12/16 13:14	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/12/16 13:14	1
2-Butanone	ND		15		ug/L			02/12/16 13:14	1
2-Hexanone	ND		2.0		ug/L			02/12/16 13:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/12/16 13:14	1
Acetone	ND		2.0		ug/L			02/12/16 13:14	1
Acrylonitrile	ND		5.0		ug/L			02/12/16 13:14	1
Benzene	ND		0.20		ug/L			02/12/16 13:14	1
Bromochloromethane	ND		0.20		ug/L			02/12/16 13:14	1
Bromodichloromethane	ND		0.20		ug/L			02/12/16 13:14	1
Bromoform	ND		0.50		ug/L			02/12/16 13:14	1
Bromomethane	ND		1.0		ug/L			02/12/16 13:14	1
Carbon disulfide	ND		0.20		ug/L			02/12/16 13:14	1
Carbon tetrachloride	ND		0.20		ug/L			02/12/16 13:14	1
Chlorobenzene	ND		0.20		ug/L			02/12/16 13:14	1
Chloroethane	ND		0.50		ug/L			02/12/16 13:14	1
Chloroform	ND		0.20		ug/L			02/12/16 13:14	1
Chloromethane	ND	*	0.30		ug/L			02/12/16 13:14	1
cis-1,2-Dichloroethene	**0.49**		0.20		ug/L			02/12/16 13:14	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/12/16 13:14	1
Dibromochloromethane	ND	*	0.20		ug/L			02/12/16 13:14	1
Dibromomethane	ND		0.20		ug/L			02/12/16 13:14	1
Ethylbenzene	ND		0.20		ug/L			02/12/16 13:14	1
m,p-Xylene	ND		0.50		ug/L			02/12/16 13:14	1
Methyl iodide	ND		0.50		ug/L			02/12/16 13:14	1
Methylene Chloride	ND		0.50		ug/L			02/12/16 13:14	1
o-Xylene	ND		0.50		ug/L			02/12/16 13:14	1
Styrene	ND		0.50		ug/L			02/12/16 13:14	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 13:14	1
Toluene	ND		0.20		ug/L			02/12/16 13:14	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 13:14	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/12/16 13:14	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/12/16 13:14	1
Trichloroethene	**0.24**		0.20		ug/L			02/12/16 13:14	1
Trichlorofluoromethane	**6.1**		0.50		ug/L			02/12/16 13:14	1
Vinyl acetate	ND		1.0		ug/L			02/12/16 13:14	1
Vinyl chloride	ND		0.020		ug/L			02/12/16 13:14	1

Client Sample ID: 0216-10

Date Collected: 02/01/16 16:30
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 128*		*02/12/16 13:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/12/16 13:14*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*02/12/16 13:14*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/12/16 13:14*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 127*		*02/12/16 13:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.72**	**H**	0.20		ug/L			02/23/16 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 128*		*02/23/16 17:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/23/16 17:24*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/23/16 17:24*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*02/23/16 17:24*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 127*		*02/23/16 17:24*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 22:27	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.1**		4.0		mg/L			02/25/16 22:40	20
Sulfate	**340**		10		mg/L			02/25/16 22:40	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		02/10/16 14:08	02/11/16 12:52	1
Iron	ND		0.30		mg/L		02/10/16 14:08	02/11/16 12:52	1
Magnesium	**76**		1.1		mg/L		02/10/16 14:08	02/11/16 12:52	1
Manganese	ND		0.020		mg/L		02/10/16 14:08	02/11/16 12:52	1
Potassium	**5.9**		3.3		mg/L		02/10/16 14:08	02/11/16 12:52	1
Sodium	**32**		2.0		mg/L		02/10/16 14:08	02/11/16 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Arsenic	**0.0015**		0.0010		mg/L		02/10/16 14:08	02/12/16 05:16	1
Barium	**0.056**		0.0012		mg/L		02/10/16 14:08	02/12/16 05:16	1
Beryllium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Cadmium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Chromium	**0.010**		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Cobalt	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Copper	ND		0.0020		mg/L		02/10/16 14:08	02/12/16 05:16	1
Lead	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Nickel	**0.0092**		0.0030		mg/L		02/10/16 14:08	02/12/16 05:16	1
Selenium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 05:16	1
Silver	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:16	1
Thallium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 05:16	1
Vanadium	ND		0.0040		mg/L		02/10/16 14:08	02/12/16 05:16	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-10
Date Collected: 02/01/16 16:30
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.0070		mg/L		02/10/16 14:08	02/12/16 05:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1
Nitrate Nitrite as N	**6.4**		0.25		mg/L			02/29/16 16:41	5
Total Organic Carbon	**9.3**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**410**		5.0		mg/L			02/03/16 17:21	1
Bicarbonate Alkalinity as CaCO3	**410**		5.0		mg/L			02/03/16 17:21	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/03/16 17:21	1
Total Dissolved Solids	**980**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	**22**		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-211075/4
Matrix: Water
Analysis Batch: 211075

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 09:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/11/16 09:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/11/16 09:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/11/16 09:13	1
1,1-Dichloroethane	ND		0.20		ug/L			02/11/16 09:13	1
1,1-Dichloroethene	ND		0.10		ug/L			02/11/16 09:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/11/16 09:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/11/16 09:13	1
1,2-Dibromoethane	ND		0.10		ug/L			02/11/16 09:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/11/16 09:13	1
1,2-Dichloroethane	ND		0.20		ug/L			02/11/16 09:13	1
1,2-Dichloropropane	ND		0.20		ug/L			02/11/16 09:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/11/16 09:13	1
2-Butanone	ND		15		ug/L			02/11/16 09:13	1
2-Hexanone	ND		2.0		ug/L			02/11/16 09:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/11/16 09:13	1
Acetone	ND		2.0		ug/L			02/11/16 09:13	1
Acrylonitrile	ND		5.0		ug/L			02/11/16 09:13	1
Benzene	ND		0.20		ug/L			02/11/16 09:13	1
Bromochloromethane	ND		0.20		ug/L			02/11/16 09:13	1
Bromodichloromethane	ND		0.20		ug/L			02/11/16 09:13	1
Bromoform	ND		0.50		ug/L			02/11/16 09:13	1
Bromomethane	ND		1.0		ug/L			02/11/16 09:13	1
Carbon disulfide	ND		0.20		ug/L			02/11/16 09:13	1
Carbon tetrachloride	ND		0.20		ug/L			02/11/16 09:13	1
Chlorobenzene	ND		0.20		ug/L			02/11/16 09:13	1
Chloroethane	ND		0.50		ug/L			02/11/16 09:13	1
Chloroform	ND		0.20		ug/L			02/11/16 09:13	1
Chloromethane	ND		0.30		ug/L			02/11/16 09:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 09:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/11/16 09:13	1
Dibromochloromethane	ND		0.20		ug/L			02/11/16 09:13	1
Dibromomethane	ND		0.20		ug/L			02/11/16 09:13	1
Ethylbenzene	ND		0.20		ug/L			02/11/16 09:13	1
m,p-Xylene	ND		0.50		ug/L			02/11/16 09:13	1
Methyl iodide	ND		0.50		ug/L			02/11/16 09:13	1
Methylene Chloride	ND		0.50		ug/L			02/11/16 09:13	1
o-Xylene	ND		0.50		ug/L			02/11/16 09:13	1
Styrene	ND		0.50		ug/L			02/11/16 09:13	1
Tetrachloroethene	ND		0.50		ug/L			02/11/16 09:13	1
Toluene	ND		0.20		ug/L			02/11/16 09:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/11/16 09:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/11/16 09:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/11/16 09:13	1
Trichloroethene	ND		0.20		ug/L			02/11/16 09:13	1
Trichlorofluoromethane	ND		0.50		ug/L			02/11/16 09:13	1
Vinyl acetate	ND		1.0		ug/L			02/11/16 09:13	1
Vinyl chloride	ND		0.020		ug/L			02/11/16 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 128*		*02/11/16 09:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*		*02/11/16 09:13*	*1*
Dibromofluoromethane (Surr)	*92*		*85 - 115*		*02/11/16 09:13*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/11/16 09:13*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 127*		*02/11/16 09:13*	*1*

Lab Sample ID: LCS 580-211075/5
Matrix: Water
Analysis Batch: 211075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	5.74		ug/L		114	75 - 125
1,1,1-Trichloroethane	5.02	6.14		ug/L		122	80 - 140
1,1,2,2-Tetrachloroethane	5.01	5.46		ug/L		109	75 - 125
1,1,2-Trichloroethane	5.02	5.70		ug/L		114	80 - 130
1,1-Dichloroethane	5.00	5.20		ug/L		104	75 - 135
1,1-Dichloroethene	5.04	4.63		ug/L		92	70 - 150
1,2,3-Trichloropropane	5.01	6.73	*	ug/L		134	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	6.24	*	ug/L		124	55 - 120
1,2-Dibromoethane	5.01	6.13		ug/L		122	70 - 130
1,2-Dichlorobenzene	5.00	5.16		ug/L		103	80 - 130
1,2-Dichloroethane	5.00	6.27		ug/L		125	80 - 140
1,2-Dichloropropane	5.00	4.74		ug/L		95	80 - 120
1,4-Dichlorobenzene	5.01	4.90		ug/L		98	80 - 120
2-Butanone	20.0	22.2		ug/L		111	20 - 200
2-Hexanone	20.0	29.1		ug/L		146	52 - 160
4-Methyl-2-pentanone	20.0	26.8		ug/L		134	55 - 135
Acetone	20.0	9.01		ug/L		45	30 - 200
Acrylonitrile	50.0	50.7		ug/L		101	65 - 150
Benzene	5.02	4.74		ug/L		95	80 - 120
Bromochloromethane	5.01	5.11		ug/L		102	80 - 125
Bromodichloromethane	5.02	5.96		ug/L		119	80 - 125
Bromoform	5.02	5.58		ug/L		111	65 - 130
Bromomethane	5.01	5.18		ug/L		103	70 - 135
Carbon disulfide	5.02	5.11		ug/L		102	65 - 160
Carbon tetrachloride	5.01	6.16		ug/L		123	75 - 140
Chlorobenzene	5.02	4.99		ug/L		99	80 - 120
Chloroethane	5.02	4.88		ug/L		97	75 - 140
Chloroform	5.00	5.34		ug/L		107	80 - 130
Chloromethane	5.02	7.30	*	ug/L		145	50 - 140
cis-1,2-Dichloroethene	5.01	4.86		ug/L		97	80 - 130
cis-1,3-Dichloropropene	5.01	6.53	*	ug/L		130	70 - 120
Dibromochloromethane	5.01	6.81	*	ug/L		136	70 - 120
Dibromomethane	5.02	5.34		ug/L		106	80 - 130
Ethylbenzene	5.02	5.50		ug/L		110	80 - 125
m,p-Xylene	5.01	5.82		ug/L		116	80 - 130
Methyl iodide	5.02	5.13		ug/L		102	60 - 160
Methylene Chloride	5.02	4.29		ug/L		85	60 - 145
o-Xylene	5.01	5.95		ug/L		119	80 - 120
Styrene	5.01	5.71		ug/L		114	75 - 130
Tetrachloroethene	5.01	5.27		ug/L		105	40 - 180
Toluene	5.00	5.35		ug/L		107	80 - 120
trans-1,2-Dichloroethene	5.01	4.96		ug/L		99	80 - 140
trans-1,3-Dichloropropene	5.00	6.69		ug/L		134	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211075/5
Matrix: Water
Analysis Batch: 211075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	6.74		ug/L		135	40 - 140
Trichloroethene	5.01	4.99		ug/L		100	80 - 130
Trichlorofluoromethane	5.00	5.87		ug/L		117	30 - 180
Vinyl acetate	12.5	13.2		ug/L		106	30 - 200
Vinyl chloride	5.03	5.43		ug/L		108	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 128*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*
Dibromofluoromethane (Surr)	*93*		*85 - 115*
Toluene-d8 (Surr)	*106*		*75 - 125*
Trifluorotoluene (Surr)	*100*		*80 - 127*

Lab Sample ID: LCSD 580-211075/6
Matrix: Water
Analysis Batch: 211075

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
1,1,1,2-Tetrachloroethane	5.02	5.95		ug/L		119	75 - 125	4	20
1,1,1-Trichloroethane	5.02	6.05		ug/L		121	80 - 140	2	20
1,1,2,2-Tetrachloroethane	5.01	5.62		ug/L		112	75 - 125	3	20
1,1,2-Trichloroethane	5.02	5.81		ug/L		116	80 - 130	2	20
1,1-Dichloroethane	5.00	5.26		ug/L		105	75 - 135	1	20
1,1-Dichloroethene	5.04	4.87		ug/L		97	70 - 150	5	20
1,2,3-Trichloropropane	5.01	6.48	*	ug/L		130	75 - 120	4	20
1,2-Dibromo-3-Chloropropane	5.01	6.14	*	ug/L		122	55 - 120	2	20
1,2-Dibromoethane	5.01	5.96		ug/L		119	70 - 130	3	20
1,2-Dichlorobenzene	5.00	5.30		ug/L		106	80 - 130	3	20
1,2-Dichloroethane	5.00	6.35		ug/L		127	80 - 140	1	20
1,2-Dichloropropane	5.00	4.80		ug/L		96	80 - 120	1	20
1,4-Dichlorobenzene	5.01	5.17		ug/L		103	80 - 120	5	20
2-Butanone	20.0	22.1		ug/L		111	20 - 200	1	20
2-Hexanone	20.0	29.6		ug/L		148	52 - 160	2	20
4-Methyl-2-pentanone	20.0	28.9	*	ug/L		145	55 - 135	8	20
Acetone	20.0	8.66		ug/L		43	30 - 200	4	20
Acrylonitrile	50.0	49.7		ug/L		99	65 - 150	2	20
Benzene	5.02	4.72		ug/L		94	80 - 120	0	20
Bromochloromethane	5.01	5.42		ug/L		108	80 - 125	6	20
Bromodichloromethane	5.02	6.08		ug/L		121	80 - 125	2	20
Bromoform	5.02	5.60		ug/L		112	65 - 130	0	20
Bromomethane	5.01	4.96		ug/L		99	70 - 135	4	20
Carbon disulfide	5.02	5.01		ug/L		100	65 - 160	2	20
Carbon tetrachloride	5.01	6.10		ug/L		122	75 - 140	1	20
Chlorobenzene	5.02	5.01		ug/L		100	80 - 120	0	20
Chloroethane	5.02	4.76		ug/L		95	75 - 140	3	20
Chloroform	5.00	5.46		ug/L		109	80 - 130	2	20
Chloromethane	5.02	7.16	*	ug/L		143	50 - 140	2	20
cis-1,2-Dichloroethene	5.01	4.91		ug/L		98	80 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-211075/6
Matrix: Water
Analysis Batch: 211075

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
cis-1,3-Dichloropropene			5.01	6.61	*	ug/L		132	70 - 120	1	20
Dibromochloromethane			5.01	6.85	*	ug/L		137	70 - 120	1	20
Dibromomethane			5.02	5.49		ug/L		109	80 - 130	3	20
Ethylbenzene			5.02	5.57		ug/L		111	80 - 125	1	20
m,p-Xylene			5.01	5.73		ug/L		114	80 - 130	2	20
Methyl iodide			5.02	4.97		ug/L		99	60 - 160	3	20
Methylene Chloride			5.02	4.81		ug/L		96	60 - 145	12	20
o-Xylene			5.01	5.89		ug/L		118	80 - 120	1	20
Styrene			5.01	5.79		ug/L		116	75 - 130	1	20
Tetrachloroethene			5.01	5.31		ug/L		106	40 - 180	1	20
Toluene			5.00	5.39		ug/L		108	80 - 120	1	20
trans-1,2-Dichloroethene			5.01	4.98		ug/L		99	80 - 140	0	20
trans-1,3-Dichloropropene			5.00	6.89		ug/L		138	60 - 140	3	20
trans-1,4-Dichloro-2-butene			5.00	6.67		ug/L		133	40 - 140	1	20
Trichloroethene			5.01	5.00		ug/L		100	80 - 130	0	20
Trichlorofluoromethane			5.00	5.79		ug/L		116	30 - 180	1	20
Vinyl acetate			12.5	14.3		ug/L		115	30 - 200	8	20
Vinyl chloride			5.03	5.36		ug/L		106	65 - 140	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 128*
4-Bromofluorobenzene (Surr)	*89*		*75 - 120*
Dibromofluoromethane (Surr)	*94*		*85 - 115*
Toluene-d8 (Surr)	*106*		*75 - 125*
Trifluorotoluene (Surr)	*103*		*80 - 127*

Lab Sample ID: MB 580-211163/4
Matrix: Water
Analysis Batch: 211163

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 09:09	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/12/16 09:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/12/16 09:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/12/16 09:09	1
1,1-Dichloroethane	ND		0.20		ug/L			02/12/16 09:09	1
1,1-Dichloroethene	ND		0.10		ug/L			02/12/16 09:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/12/16 09:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/12/16 09:09	1
1,2-Dibromoethane	ND		0.10		ug/L			02/12/16 09:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/12/16 09:09	1
1,2-Dichloroethane	ND		0.20		ug/L			02/12/16 09:09	1
1,2-Dichloropropane	ND		0.20		ug/L			02/12/16 09:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/12/16 09:09	1
2-Butanone	ND		15		ug/L			02/12/16 09:09	1
2-Hexanone	ND		2.0		ug/L			02/12/16 09:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/12/16 09:09	1
Acetone	ND		2.0		ug/L			02/12/16 09:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-211163/4
Matrix: Water
Analysis Batch: 211163

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0		ug/L			02/12/16 09:09	1
Benzene	ND		0.20		ug/L			02/12/16 09:09	1
Bromochloromethane	ND		0.20		ug/L			02/12/16 09:09	1
Bromodichloromethane	ND		0.20		ug/L			02/12/16 09:09	1
Bromoform	ND		0.50		ug/L			02/12/16 09:09	1
Bromomethane	ND		1.0		ug/L			02/12/16 09:09	1
Carbon disulfide	ND		0.20		ug/L			02/12/16 09:09	1
Carbon tetrachloride	ND		0.20		ug/L			02/12/16 09:09	1
Chlorobenzene	ND		0.20		ug/L			02/12/16 09:09	1
Chloroethane	ND		0.50		ug/L			02/12/16 09:09	1
Chloroform	ND		0.20		ug/L			02/12/16 09:09	1
Chloromethane	ND		0.30		ug/L			02/12/16 09:09	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 09:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/12/16 09:09	1
Dibromochloromethane	ND		0.20		ug/L			02/12/16 09:09	1
Dibromomethane	ND		0.20		ug/L			02/12/16 09:09	1
Ethylbenzene	ND		0.20		ug/L			02/12/16 09:09	1
m,p-Xylene	ND		0.50		ug/L			02/12/16 09:09	1
Methyl iodide	ND		0.50		ug/L			02/12/16 09:09	1
Methylene Chloride	ND		0.50		ug/L			02/12/16 09:09	1
o-Xylene	ND		0.50		ug/L			02/12/16 09:09	1
Styrene	ND		0.50		ug/L			02/12/16 09:09	1
Tetrachloroethene	ND		0.50		ug/L			02/12/16 09:09	1
Toluene	ND		0.20		ug/L			02/12/16 09:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/12/16 09:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/12/16 09:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/12/16 09:09	1
Trichloroethene	ND		0.20		ug/L			02/12/16 09:09	1
Trichlorofluoromethane	ND		0.50		ug/L			02/12/16 09:09	1
Vinyl acetate	ND		1.0		ug/L			02/12/16 09:09	1
Vinyl chloride	ND		0.020		ug/L			02/12/16 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*		*02/12/16 09:09*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/12/16 09:09*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/12/16 09:09*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*02/12/16 09:09*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 127*		*02/12/16 09:09*	*1*

Lab Sample ID: LCS 580-211163/5
Matrix: Water
Analysis Batch: 211163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	5.82		ug/L		116	75 - 125
1,1,1-Trichloroethane	5.02	6.23		ug/L		124	80 - 140
1,1,2,2-Tetrachloroethane	5.01	5.27		ug/L		105	75 - 125
1,1,2-Trichloroethane	5.02	5.62		ug/L		112	80 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211163/5
Matrix: Water
Analysis Batch: 211163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	5.00	5.13		ug/L		103	75 - 135
1,1-Dichloroethene	5.04	4.67		ug/L		93	70 - 150
1,2,3-Trichloropropane	5.01	6.30	*	ug/L		126	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	5.73		ug/L		114	55 - 120
1,2-Dibromoethane	5.01	5.94		ug/L		119	70 - 130
1,2-Dichlorobenzene	5.00	5.02		ug/L		100	80 - 130
1,2-Dichloroethane	5.00	6.43		ug/L		129	80 - 140
1,2-Dichloropropane	5.00	4.53		ug/L		91	80 - 120
1,4-Dichlorobenzene	5.01	4.84		ug/L		96	80 - 120
2-Butanone	20.0	20.1		ug/L		100	20 - 200
2-Hexanone	20.0	29.0		ug/L		145	52 - 160
4-Methyl-2-pentanone	20.0	27.1		ug/L		135	55 - 135
Acetone	20.0	8.48		ug/L		42	30 - 200
Acrylonitrile	50.0	39.1		ug/L		78	65 - 150
Benzene	5.02	4.54		ug/L		91	80 - 120
Bromochloromethane	5.01	5.15		ug/L		103	80 - 125
Bromodichloromethane	5.02	6.02		ug/L		120	80 - 125
Bromoform	5.02	5.64		ug/L		112	65 - 130
Bromomethane	5.01	4.91		ug/L		98	70 - 135
Carbon disulfide	5.02	4.82		ug/L		96	65 - 160
Carbon tetrachloride	5.01	6.50		ug/L		130	75 - 140
Chlorobenzene	5.02	4.95		ug/L		98	80 - 120
Chloroethane	5.02	4.55		ug/L		91	75 - 140
Chloroform	5.00	5.40		ug/L		108	80 - 130
Chloromethane	5.02	7.30	*	ug/L		145	50 - 140
cis-1,2-Dichloroethene	5.01	4.68		ug/L		94	80 - 130
cis-1,3-Dichloropropene	5.01	6.31	*	ug/L		126	70 - 120
Dibromochloromethane	5.01	7.11	*	ug/L		142	70 - 120
Dibromomethane	5.02	5.38		ug/L		107	80 - 130
Ethylbenzene	5.02	5.52		ug/L		110	80 - 125
m,p-Xylene	5.01	5.86		ug/L		117	80 - 130
Methyl iodide	5.02	4.85		ug/L		97	60 - 160
Methylene Chloride	5.02	4.62		ug/L		92	60 - 145
o-Xylene	5.01	5.88		ug/L		117	80 - 120
Styrene	5.01	5.64		ug/L		113	75 - 130
Tetrachloroethene	5.01	5.21		ug/L		104	40 - 180
Toluene	5.00	5.25		ug/L		105	80 - 120
trans-1,2-Dichloroethene	5.01	4.91		ug/L		98	80 - 140
trans-1,3-Dichloropropene	5.00	6.76		ug/L		135	60 - 140
trans-1,4-Dichloro-2-butene	5.00	7.20	*	ug/L		144	40 - 140
Trichloroethene	5.01	5.01		ug/L		100	80 - 130
Trichlorofluoromethane	5.00	6.37		ug/L		127	30 - 180
Vinyl acetate	12.5	13.2		ug/L		106	30 - 200
Vinyl chloride	5.03	5.36		ug/L		107	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211163/5
Matrix: Water
Analysis Batch: 211163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*85 - 115*
Toluene-d8 (Surr)	*106*		*75 - 125*
Trifluorotoluene (Surr)	*97*		*80 - 127*

Lab Sample ID: LCSD 580-211163/6
Matrix: Water
Analysis Batch: 211163

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
1,1,1,2-Tetrachloroethane	5.02	5.83		ug/L		116	75 - 125	0	20
1,1,1-Trichloroethane	5.02	6.21		ug/L		124	80 - 140	0	20
1,1,2,2-Tetrachloroethane	5.01	5.12		ug/L		102	75 - 125	3	20
1,1,2-Trichloroethane	5.02	5.40		ug/L		108	80 - 130	4	20
1,1-Dichloroethane	5.00	5.20		ug/L		104	75 - 135	2	20
1,1-Dichloroethene	5.04	4.63		ug/L		92	70 - 150	1	20
1,2,3-Trichloropropane	5.01	6.61	*	ug/L		132	75 - 120	5	20
1,2-Dibromo-3-Chloropropane	5.01	5.59		ug/L		112	55 - 120	2	20
1,2-Dibromoethane	5.01	5.75		ug/L		115	70 - 130	3	20
1,2-Dichlorobenzene	5.00	4.89		ug/L		98	80 - 130	3	20
1,2-Dichloroethane	5.00	6.36		ug/L		127	80 - 140	1	20
1,2-Dichloropropane	5.00	4.74		ug/L		95	80 - 120	4	20
1,4-Dichlorobenzene	5.01	4.68		ug/L		93	80 - 120	3	20
2-Butanone	20.0	18.9		ug/L		94	20 - 200	6	20
2-Hexanone	20.0	27.9		ug/L		139	52 - 160	4	20
4-Methyl-2-pentanone	20.0	25.5		ug/L		128	55 - 135	6	20
Acetone	20.0	7.88		ug/L		39	30 - 200	7	20
Acrylonitrile	50.0	38.1		ug/L		76	65 - 150	3	20
Benzene	5.02	4.52		ug/L		90	80 - 120	1	20
Bromochloromethane	5.01	5.03		ug/L		100	80 - 125	2	20
Bromodichloromethane	5.02	5.95		ug/L		119	80 - 125	1	20
Bromoform	5.02	5.41		ug/L		108	65 - 130	4	20
Bromomethane	5.01	5.02		ug/L		100	70 - 135	2	20
Carbon disulfide	5.02	4.88		ug/L		97	65 - 160	1	20
Carbon tetrachloride	5.01	6.35		ug/L		127	75 - 140	2	20
Chlorobenzene	5.02	4.91		ug/L		98	80 - 120	1	20
Chloroethane	5.02	4.49		ug/L		89	75 - 140	1	20
Chloroform	5.00	5.30		ug/L		106	80 - 130	2	20
Chloromethane	5.02	6.56		ug/L		131	50 - 140	11	20
cis-1,2-Dichloroethene	5.01	4.64		ug/L		93	80 - 130	1	20
cis-1,3-Dichloropropene	5.01	6.28	*	ug/L		125	70 - 120	1	20
Dibromochloromethane	5.01	6.66	*	ug/L		133	70 - 120	6	20
Dibromomethane	5.02	5.28		ug/L		105	80 - 130	2	20
Ethylbenzene	5.02	5.47		ug/L		109	80 - 125	1	20
m,p-Xylene	5.01	5.75		ug/L		115	80 - 130	2	20
Methyl iodide	5.02	5.12		ug/L		102	60 - 160	6	20
Methylene Chloride	5.02	4.62		ug/L		92	60 - 145	0	20
o-Xylene	5.01	5.83		ug/L		116	80 - 120	1	20
Styrene	5.01	5.50		ug/L		110	75 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-211163/6
Matrix: Water
Analysis Batch: 211163

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
Tetrachloroethene			5.01	5.42		ug/L		108	40 - 180	4	20
Toluene			5.00	5.17		ug/L		103	80 - 120	2	20
trans-1,2-Dichloroethene			5.01	4.98		ug/L		99	80 - 140	1	20
trans-1,3-Dichloropropene			5.00	6.55		ug/L		131	60 - 140	3	20
trans-1,4-Dichloro-2-butene			5.00	6.34		ug/L		127	40 - 140	13	20
Trichloroethene			5.01	4.98		ug/L		99	80 - 130	1	20
Trichlorofluoromethane			5.00	6.10		ug/L		122	30 - 180	4	20
Vinyl acetate			12.5	13.2		ug/L		106	30 - 200	0	20
Vinyl chloride			5.03	5.03		ug/L		100	65 - 140	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*105*		*75 - 125*
Trifluorotoluene (Surr)	*98*		*80 - 127*

Lab Sample ID: MB 580-211788/4
Matrix: Water
Analysis Batch: 211788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20		ug/L			02/23/16 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 128*		*02/23/16 10:07*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/23/16 10:07*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*02/23/16 10:07*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*02/23/16 10:07*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*02/23/16 10:07*	*1*

Lab Sample ID: LCS 580-211788/5
Matrix: Water
Analysis Batch: 211788

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			5.02	6.22		ug/L		124	80 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*104*		*75 - 125*
Trifluorotoluene (Surr)	*94*		*80 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-211788/6
Matrix: Water
Analysis Batch: 211788

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
1,1,1-Trichloroethane			5.02	6.09		ug/L		121	80 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 128*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*103*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*80 - 127*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-238018/3
Matrix: Water
Analysis Batch: 238018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 15:28	1
Chloride	ND		0.20		mg/L			02/25/16 15:28	1
Sulfate	ND		0.50		mg/L			02/25/16 15:28	1

Lab Sample ID: LCS 160-238018/4
Matrix: Water
Analysis Batch: 238018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			1.00	0.967		mg/L		97	90 - 110		
Chloride			2.00	1.87		mg/L		93	90 - 110		
Sulfate			8.00	7.53		mg/L		94	90 - 110		

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND	F1	2.00	2.53	E F1	mg/L		122	90 - 110		

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	ND	F1		ND		mg/L				6	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 160-238092/3
Matrix: Water
Analysis Batch: 238092

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 13:56	1
Chloride	ND		0.20		mg/L			02/26/16 13:56	1
Sulfate	ND		0.50		mg/L			02/26/16 13:56	1

Lab Sample ID: LCS 160-238092/4
Matrix: Water
Analysis Batch: 238092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	1.00		mg/L		100	90 - 110
Chloride	2.00	1.87		mg/L		93	90 - 110
Sulfate	8.00	7.54		mg/L		94	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	22		40.0	61.5		mg/L		98	90 - 110
Sulfate - DL	19		80.0	93.4		mg/L		93	90 - 110

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	22		22.9		mg/L		3	20
Sulfate - DL	19		19.4		mg/L		2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-210893/20-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/04/16 10:43	02/05/16 12:14	1
Iron	ND		0.30		mg/L		02/04/16 10:43	02/05/16 12:14	1
Magnesium	ND		1.1		mg/L		02/04/16 10:43	02/05/16 12:14	1
Manganese	ND		0.020		mg/L		02/04/16 10:43	02/05/16 12:14	1
Potassium	ND		3.3		mg/L		02/04/16 10:43	02/05/16 12:14	1
Sodium	ND		2.0		mg/L		02/04/16 10:43	02/05/16 12:14	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-210893/21-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.9		mg/L		104	80 - 120
Iron	22.0	22.8		mg/L		104	80 - 120
Magnesium	20.0	20.8		mg/L		104	80 - 120
Manganese	1.00	1.06		mg/L		106	80 - 120
Potassium	20.0	20.0		mg/L		100	80 - 120
Sodium	20.0	20.8		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-210893/22-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.4		mg/L		102	80 - 120	2	20
Iron	22.0	22.4		mg/L		102	80 - 120	2	20
Magnesium	20.0	20.3		mg/L		102	80 - 120	2	20
Manganese	1.00	1.04		mg/L		104	80 - 120	2	20
Potassium	20.0	19.6		mg/L		98	80 - 120	2	20
Sodium	20.0	20.3		mg/L		102	80 - 120	2	20

Lab Sample ID: MB 580-210906/20-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/04/16 11:44	02/05/16 12:54	1
Iron	ND		0.30		mg/L		02/04/16 11:44	02/05/16 12:54	1
Magnesium	ND		1.1		mg/L		02/04/16 11:44	02/05/16 12:54	1
Manganese	ND		0.020		mg/L		02/04/16 11:44	02/05/16 12:54	1
Potassium	ND		3.3		mg/L		02/04/16 11:44	02/05/16 12:54	1
Sodium	ND		2.0		mg/L		02/04/16 11:44	02/05/16 12:54	1

Lab Sample ID: LCS 580-210906/21-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.6		mg/L		103	80 - 120
Iron	22.0	22.6		mg/L		103	80 - 120
Magnesium	20.0	20.7		mg/L		103	80 - 120
Manganese	1.00	1.06		mg/L		106	80 - 120
Potassium	20.0	19.9		mg/L		100	80 - 120
Sodium	20.0	20.7		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-210906/22-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.5		mg/L		102	80 - 120	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-210906/22-A
Matrix: Water
Analysis Batch: 211059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	22.0	22.7		mg/L		103	80 - 120	0	20
Magnesium	20.0	20.7		mg/L		103	80 - 120	0	20
Manganese	1.00	1.06		mg/L		106	80 - 120	1	20
Potassium	20.0	20.0		mg/L		100	80 - 120	0	20
Sodium	20.0	20.7		mg/L		103	80 - 120	0	20

Lab Sample ID: MB 580-211046/20-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/10/16 14:08	02/11/16 12:18	1
Iron	ND		0.30		mg/L		02/10/16 14:08	02/11/16 12:18	1
Magnesium	ND		1.1		mg/L		02/10/16 14:08	02/11/16 12:18	1
Manganese	ND		0.020		mg/L		02/10/16 14:08	02/11/16 12:18	1
Potassium	ND		3.3		mg/L		02/10/16 14:08	02/11/16 12:18	1
Sodium	ND		2.0		mg/L		02/10/16 14:08	02/11/16 12:18	1

Lab Sample ID: LCS 580-211046/21-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	21.9		mg/L		109	80 - 120
Iron	22.0	24.2		mg/L		110	80 - 120
Magnesium	20.0	22.2		mg/L		111	80 - 120
Manganese	1.00	1.12		mg/L		112	80 - 120
Potassium	20.0	20.9		mg/L		105	80 - 120
Sodium	20.0	21.1		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-211046/22-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.6		mg/L		98	80 - 120	11	20
Iron	22.0	21.6		mg/L		98	80 - 120	12	20
Magnesium	20.0	19.7		mg/L		99	80 - 120	12	20
Manganese	1.00	0.998		mg/L		100	80 - 120	11	20
Potassium	20.0	18.5		mg/L		93	80 - 120	12	20
Sodium	20.0	19.1		mg/L		96	80 - 120	10	20

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-01
Prep Type: Dissolved
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	61		20.0	80.8		mg/L		102	75 - 125
Iron	ND		22.0	22.4		mg/L		102	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-01
Prep Type: Dissolved
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	41		20.0	61.7		mg/L		102	75 - 125
Manganese	0.14		1.00	1.18		mg/L		104	75 - 125
Potassium	6.3		20.0	26.2		mg/L		100	75 - 125
Sodium	25		20.0	46.4		mg/L		105	75 - 125

Lab Sample ID: 580-57012-1 MSD
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-01
Prep Type: Dissolved
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	61		20.0	80.4		mg/L		100	75 - 125	0	20
Iron	ND		22.0	22.4		mg/L		102	75 - 125	0	20
Magnesium	41		20.0	61.5		mg/L		101	75 - 125	0	20
Manganese	0.14		1.00	1.17		mg/L		103	75 - 125	1	20
Potassium	6.3		20.0	26.4		mg/L		100	75 - 125	0	20
Sodium	25		20.0	45.5		mg/L		101	75 - 125	2	20

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-01
Prep Type: Dissolved
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	61		60.5		mg/L		0.1	20
Iron	ND		ND		mg/L		NC	20
Magnesium	41		40.9		mg/L		1	20
Manganese	0.14		0.140		mg/L		1	20
Potassium	6.3		6.09		mg/L		3	20
Sodium	25		25.6		mg/L		1	20

Lab Sample ID: 580-57012-2 MS
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-02
Prep Type: Dissolved
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	40		20.0	57.7		mg/L		89	75 - 125
Iron	ND		22.0	23.6		mg/L		107	75 - 125
Magnesium	58		20.0	77.5		mg/L		96	75 - 125
Manganese	ND		1.00	1.17		mg/L		117	75 - 125
Potassium	9.9		20.0	30.3		mg/L		102	75 - 125
Sodium	29		20.0	50.9		mg/L		108	75 - 125

Lab Sample ID: 580-57012-2 MSD
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-02
Prep Type: Dissolved
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	40		20.0	58.7		mg/L		94	75 - 125	2	20
Iron	ND		22.0	24.0		mg/L		109	75 - 125	2	20
Magnesium	58		20.0	79.2		mg/L		104	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-57012-2 MSD
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-02
Prep Type: Dissolved
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	ND		1.00	1.18		mg/L		118	75 - 125	1	20
Potassium	9.9		20.0	31.0		mg/L		105	75 - 125	2	20
Sodium	29		20.0	51.0		mg/L		108	75 - 125	0	20

Lab Sample ID: 580-57012-2 DU
Matrix: Water
Analysis Batch: 211059

Client Sample ID: 0216-02
Prep Type: Dissolved
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	40		38.8		mg/L		3	20
Iron	ND		1.22		mg/L		NC	20
Magnesium	58		58.9		mg/L		0.9	20
Manganese	ND		0.134		mg/L		NC	20
Potassium	9.9		10.2		mg/L		3	20
Sodium	29		30.9		mg/L		5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-210893/20-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Arsenic	ND		0.0010		mg/L		02/04/16 10:43	02/12/16 00:49	1
Barium	ND		0.0012		mg/L		02/04/16 10:43	02/12/16 00:49	1
Beryllium	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Cadmium	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Chromium	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Cobalt	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Copper	ND		0.0020		mg/L		02/04/16 10:43	02/12/16 00:49	1
Lead	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Nickel	ND		0.0030		mg/L		02/04/16 10:43	02/12/16 00:49	1
Selenium	ND		0.0010		mg/L		02/04/16 10:43	02/12/16 00:49	1
Silver	ND		0.00040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Thallium	ND		0.0010		mg/L		02/04/16 10:43	02/12/16 00:49	1
Vanadium	ND		0.0040		mg/L		02/04/16 10:43	02/12/16 00:49	1
Zinc	ND		0.0070		mg/L		02/04/16 10:43	02/12/16 00:49	1

Lab Sample ID: LCS 580-210893/21-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.05		mg/L		102	80 - 120
Arsenic	4.00	4.04		mg/L		101	80 - 120
Barium	4.00	4.13		mg/L		103	80 - 120
Beryllium	0.100	0.101		mg/L		101	80 - 120
Cadmium	0.100	0.0930		mg/L		93	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-210893/21-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.400	0.402		mg/L		101	80 - 120
Cobalt	1.00	0.995		mg/L		99	80 - 120
Copper	0.500	0.528		mg/L		106	80 - 120
Lead	1.00	0.999		mg/L		100	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	4.00	4.09		mg/L		102	80 - 120
Silver	0.600	0.617		mg/L		103	80 - 120
Thallium	4.00	4.07		mg/L		102	80 - 120
Vanadium	1.00	0.996		mg/L		100	80 - 120
Zinc	4.00	4.12		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-210893/22-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.02		mg/L		101	80 - 120	1	20
Arsenic	4.00	4.03		mg/L		101	80 - 120	0	20
Barium	4.00	4.07		mg/L		102	80 - 120	1	20
Beryllium	0.100	0.0994		mg/L		99	80 - 120	1	20
Cadmium	0.100	0.0922		mg/L		92	80 - 120	1	20
Chromium	0.400	0.406		mg/L		101	80 - 120	1	20
Cobalt	1.00	0.985		mg/L		99	80 - 120	1	20
Copper	0.500	0.519		mg/L		104	80 - 120	2	20
Lead	1.00	0.985		mg/L		99	80 - 120	1	20
Nickel	1.00	1.02		mg/L		102	80 - 120	2	20
Selenium	4.00	4.06		mg/L		101	80 - 120	1	20
Silver	0.600	0.607		mg/L		101	80 - 120	2	20
Thallium	4.00	4.07		mg/L		102	80 - 120	0	20
Vanadium	1.00	0.986		mg/L		99	80 - 120	1	20
Zinc	4.00	4.06		mg/L		102	80 - 120	1	20

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-01
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.12		mg/L		104	80 - 120
Arsenic	0.0061		4.00	4.18		mg/L		104	80 - 120
Barium	0.025		4.00	4.31		mg/L		107	80 - 120
Beryllium	ND		0.100	0.0998		mg/L		100	80 - 120
Cadmium	ND		0.100	0.0927		mg/L		93	80 - 120
Chromium	ND		0.400	0.418		mg/L		104	80 - 120
Cobalt	ND		1.00	1.04		mg/L		104	80 - 120
Copper	0.0024		0.500	0.533		mg/L		106	80 - 120
Lead	ND		1.00	1.03		mg/L		103	80 - 120
Nickel	ND		1.00	1.06		mg/L		106	80 - 120
Selenium	ND		4.00	4.26		mg/L		106	80 - 120
Silver	ND		0.600	0.624		mg/L		104	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-01
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		4.00	4.26		mg/L		106	80 - 120
Vanadium	ND		1.00	1.04		mg/L		104	80 - 120
Zinc	0.16		4.00	4.41		mg/L		106	80 - 120

Lab Sample ID: 580-57012-1 MSD
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-01
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.05		mg/L		102	80 - 120	2	20
Arsenic	0.0061		4.00	4.08		mg/L		102	80 - 120	2	20
Barium	0.025		4.00	4.15		mg/L		103	80 - 120	4	20
Beryllium	ND		0.100	0.0972		mg/L		97	80 - 120	3	20
Cadmium	ND		0.100	0.0912		mg/L		91	80 - 120	2	20
Chromium	ND		0.400	0.416		mg/L		104	80 - 120	0	20
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120	3	20
Copper	0.0024		0.500	0.516		mg/L		103	80 - 120	3	20
Lead	ND		1.00	1.01		mg/L		101	80 - 120	3	20
Nickel	ND		1.00	1.03		mg/L		103	80 - 120	3	20
Selenium	ND		4.00	4.08		mg/L		102	80 - 120	4	20
Silver	ND		0.600	0.611		mg/L		102	80 - 120	2	20
Thallium	ND		4.00	4.16		mg/L		104	80 - 120	2	20
Vanadium	ND		1.00	1.00		mg/L		100	80 - 120	4	20
Zinc	0.16		4.00	4.29		mg/L		103	80 - 120	3	20

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-01
Prep Type: Total Recoverable
Prep Batch: 210893

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0061		0.00624		mg/L		2	20
Barium	0.025		0.0244		mg/L		3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0024		0.00249		mg/L		2	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	0.16		0.164		mg/L		1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-210906/20-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Arsenic	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:05	1
Barium	ND		0.0012		mg/L		02/04/16 11:44	02/11/16 23:05	1
Beryllium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Cadmium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Chromium	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Cobalt	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Copper	ND		0.0020		mg/L		02/04/16 11:44	02/11/16 23:05	1
Lead	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Nickel	ND		0.0030		mg/L		02/04/16 11:44	02/11/16 23:05	1
Selenium	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:05	1
Silver	ND		0.00040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Thallium	ND		0.0010		mg/L		02/04/16 11:44	02/11/16 23:05	1
Vanadium	ND		0.0040		mg/L		02/04/16 11:44	02/11/16 23:05	1
Zinc	ND		0.0070		mg/L		02/04/16 11:44	02/11/16 23:05	1

Lab Sample ID: LCS 580-210906/21-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.09		mg/L		103	80 - 120
Arsenic	4.00	4.16		mg/L		104	80 - 120
Barium	4.00	4.17		mg/L		104	80 - 120
Beryllium	0.100	0.104		mg/L		104	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.424		mg/L		106	80 - 120
Cobalt	1.00	1.02		mg/L		102	80 - 120
Copper	0.500	0.537		mg/L		107	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	4.00	4.24		mg/L		106	80 - 120
Silver	0.600	0.630		mg/L		105	80 - 120
Thallium	4.00	4.12		mg/L		103	80 - 120
Vanadium	1.00	1.03		mg/L		103	80 - 120
Zinc	4.00	4.23		mg/L		106	80 - 120

Lab Sample ID: LCSD 580-210906/22-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.10		mg/L		103	80 - 120	0	20
Arsenic	4.00	4.16		mg/L		104	80 - 120	0	20
Barium	4.00	4.17		mg/L		104	80 - 120	0	20
Beryllium	0.100	0.104		mg/L		104	80 - 120	0	20
Cadmium	0.100	0.100		mg/L		100	80 - 120	1	20
Chromium	0.400	0.419		mg/L		105	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-210906/22-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	1.02		mg/L		102	80 - 120	0	20
Copper			0.500	0.528		mg/L		106	80 - 120	2	20
Lead			1.00	1.01		mg/L		101	80 - 120	2	20
Nickel			1.00	1.05		mg/L		105	80 - 120	2	20
Selenium			4.00	4.21		mg/L		105	80 - 120	1	20
Silver			0.600	0.628		mg/L		105	80 - 120	0	20
Thallium			4.00	4.23		mg/L		106	80 - 120	3	20
Vanadium			1.00	1.03		mg/L		103	80 - 120	0	20
Zinc			4.00	4.20		mg/L		105	80 - 120	1	20

Lab Sample ID: 580-57012-2 MS
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-02
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.25		mg/L		108	80 - 120
Arsenic	0.0049		4.00	4.35		mg/L		109	80 - 120
Barium	0.040		4.00	4.45		mg/L		110	80 - 120
Beryllium	ND		0.100	0.110		mg/L		110	80 - 120
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120
Chromium	0.00046		0.400	0.447		mg/L		112	80 - 120
Cobalt	ND		1.00	1.08		mg/L		108	80 - 120
Copper	0.29		0.500	0.867		mg/L		116	80 - 120
Lead	0.021		1.00	1.09		mg/L		107	80 - 120
Nickel	ND		1.00	1.11		mg/L		110	80 - 120
Selenium	ND		4.00	4.43		mg/L		111	80 - 120
Silver	ND		0.600	0.654		mg/L		109	80 - 120
Thallium	ND		4.00	4.39		mg/L		110	80 - 120
Vanadium	ND		1.00	1.07		mg/L		107	80 - 120
Zinc	0.34		4.00	4.78		mg/L		111	80 - 120

Lab Sample ID: 580-57012-2 MSD
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-02
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.25		mg/L		108	80 - 120	0	20
Arsenic	0.0049		4.00	4.34		mg/L		108	80 - 120	0	20
Barium	0.040		4.00	4.41		mg/L		109	80 - 120	1	20
Beryllium	ND		0.100	0.107		mg/L		107	80 - 120	2	20
Cadmium	ND		0.100	0.0999		mg/L		100	80 - 120	4	20
Chromium	0.00046		0.400	0.444		mg/L		111	80 - 120	1	20
Cobalt	ND		1.00	1.08		mg/L		108	80 - 120	0	20
Copper	0.29		0.500	0.862		mg/L		115	80 - 120	1	20
Lead	0.021		1.00	1.09		mg/L		107	80 - 120	0	20
Nickel	ND		1.00	1.10		mg/L		110	80 - 120	1	20
Selenium	ND		4.00	4.41		mg/L		110	80 - 120	1	20
Silver	ND		0.600	0.648		mg/L		108	80 - 120	1	20
Thallium	ND		4.00	4.42		mg/L		110	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-57012-2 MSD
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-02
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	1.09		mg/L		109	80 - 120	1	20
Zinc	0.34		4.00	4.73		mg/L		110	80 - 120	1	20

Lab Sample ID: 580-57012-2 DU
Matrix: Water
Analysis Batch: 211174

Client Sample ID: 0216-02
Prep Type: Total Recoverable
Prep Batch: 210906

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0049		0.00505		mg/L		2	20
Barium	0.040		0.0401		mg/L		0.3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.00046		0.000423		mg/L		9	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.29		0.298		mg/L		3	20
Lead	0.021		0.0215		mg/L		0.9	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	0.34		0.351		mg/L		2	20

Lab Sample ID: MB 580-211046/20-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Arsenic	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 03:26	1
Barium	ND		0.0012		mg/L		02/10/16 14:08	02/12/16 03:26	1
Beryllium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Cadmium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Chromium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Cobalt	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Copper	ND		0.0020		mg/L		02/10/16 14:08	02/12/16 03:26	1
Lead	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Nickel	ND		0.0030		mg/L		02/10/16 14:08	02/12/16 03:26	1
Selenium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 03:26	1
Silver	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Thallium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 03:26	1
Vanadium	ND		0.0040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Zinc	ND		0.0070		mg/L		02/10/16 14:08	02/12/16 03:26	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-211046/21-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.10		mg/L		103	80 - 120
Arsenic	4.00	4.04		mg/L		101	80 - 120
Barium	4.00	4.20		mg/L		105	80 - 120
Beryllium	0.100	0.0986		mg/L		99	80 - 120
Cadmium	0.100	0.0907		mg/L		91	80 - 120
Chromium	0.400	0.394		mg/L		98	80 - 120
Cobalt	1.00	0.998		mg/L		100	80 - 120
Copper	0.500	0.512		mg/L		102	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	4.00	4.21		mg/L		105	80 - 120
Silver	0.600	0.615		mg/L		102	80 - 120
Thallium	4.00	4.04		mg/L		101	80 - 120
Vanadium	1.00	0.979		mg/L		98	80 - 120
Zinc	4.00	4.04		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-211046/22-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.12		mg/L		104	80 - 120	1	20
Arsenic	4.00	4.08		mg/L		102	80 - 120	1	20
Barium	4.00	4.22		mg/L		105	80 - 120	0	20
Beryllium	0.100	0.0962		mg/L		96	80 - 120	2	20
Cadmium	0.100	0.0959		mg/L		96	80 - 120	6	20
Chromium	0.400	0.399		mg/L		100	80 - 120	1	20
Cobalt	1.00	1.01		mg/L		101	80 - 120	1	20
Copper	0.500	0.521		mg/L		104	80 - 120	2	20
Lead	1.00	1.00		mg/L		100	80 - 120	0	20
Nickel	1.00	1.04		mg/L		104	80 - 120	3	20
Selenium	4.00	4.26		mg/L		106	80 - 120	1	20
Silver	0.600	0.619		mg/L		103	80 - 120	1	20
Thallium	4.00	4.05		mg/L		101	80 - 120	0	20
Vanadium	1.00	0.988		mg/L		99	80 - 120	1	20
Zinc	4.00	4.12		mg/L		103	80 - 120	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-211113/1-A
Matrix: Water
Analysis Batch: 211144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/05/16 13:00	02/11/16 14:27	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-211113/2-A
Matrix: Water
Analysis Batch: 211144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.03		mg/L		101	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 320-101965/15
Matrix: Water
Analysis Batch: 101965

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/26/16 15:07	1

Lab Sample ID: LCS 320-101965/16
Matrix: Water
Analysis Batch: 101965

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	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 101965

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		1.00	1.02		mg/L		100	90 - 110

Lab Sample ID: 580-57012-1 MSD
Matrix: Water
Analysis Batch: 101965

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		1.00	1.02		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 320-101966/15
Matrix: Water
Analysis Batch: 101966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/29/16 16:23	1

Lab Sample ID: LCS 320-101966/16
Matrix: Water
Analysis Batch: 101966

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	1.00	0.993		mg/L		99	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-210858/2
Matrix: Water
Analysis Batch: 210858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	105		mg/L		105	85 - 115

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 210858

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	300		305		mg/L		1	17
Bicarbonate Alkalinity as CaCO3	300		305		mg/L		1	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-211101/1
Matrix: Water
Analysis Batch: 211101

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			02/10/16 22:00	1

Lab Sample ID: LCS 580-211101/2
Matrix: Water
Analysis Batch: 211101

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	1000	962		mg/L		96	80 - 120

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 211101

Client Sample ID: 0216-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	380	H	387		mg/L		2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-211316/3-A
Matrix: Water
Analysis Batch: 211317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211316

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 580-211316/4-A
Matrix: Water
Analysis Batch: 211317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	75.2		mg/L		100	80 - 120

Lab Sample ID: 580-57012-1 MS
Matrix: Water
Analysis Batch: 211317

Client Sample ID: 0216-01
Prep Type: Total/NA
Prep Batch: 211316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		25.0	25.6		mg/L		102	75 - 125

Lab Sample ID: 580-57012-1 DU
Matrix: Water
Analysis Batch: 211317

Client Sample ID: 0216-01
Prep Type: Total/NA
Prep Batch: 211316

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-211319/1
Matrix: Water
Analysis Batch: 211319

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/04/16 20:11	1

Lab Sample ID: LCS 580-211319/2
Matrix: Water
Analysis Batch: 211319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.69		mg/L		97	85 - 115

Lab Sample ID: MB 580-211341/1
Matrix: Water
Analysis Batch: 211341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/15/16 13:07	1

Lab Sample ID: LCS 580-211341/2
Matrix: Water
Analysis Batch: 211341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.4		mg/L		104	85 - 115

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-57012-9 MS
Matrix: Water
Analysis Batch: 211341

Client Sample ID: 0216-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4.1		10.0	14.1		mg/L		100	85 - 115

Lab Sample ID: 580-57012-9 MSD
Matrix: Water
Analysis Batch: 211341

Client Sample ID: 0216-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	4.1		10.0	14.0		mg/L		99	85 - 115	1	20

Lab Sample ID: 580-57012-9 DU
Matrix: Water
Analysis Batch: 211341

Client Sample ID: 0216-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	4.1		4.10		mg/L		0	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-01

Date Collected: 02/01/16 11:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211075	02/11/16 17:21	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 16:38	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 16:51	JCB	TAL SL
Dissolved	Prep	3005A			210893	02/04/16 10:43	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 12:41	SPP	TAL SEA
Total Recoverable	Prep	3005A			210893	02/04/16 10:43	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 01:08	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:21	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Client Sample ID: 0216-02

Date Collected: 02/01/16 11:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211075	02/11/16 17:48	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 17:59	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 18:12	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:30	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/11/16 23:23	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:33	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-03

Date Collected: 02/01/16 12:20
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211075	02/11/16 18:18	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 18:52	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 19:06	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:34	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/11/16 23:59	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:35	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Client Sample ID: 0216-04

Date Collected: 02/01/16 12:50
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211075	02/11/16 18:45	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 19:19	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 19:33	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:37	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 00:04	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:37	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-05

Date Collected: 02/01/16 14:19
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211075	02/11/16 19:12	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 19:46	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 19:59	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:40	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 00:08	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:39	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Client Sample ID: 0216-06

Date Collected: 02/01/16 15:00
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211163	02/12/16 11:25	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 20:13	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 20:26	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:43	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 00:13	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:41	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-07

Date Collected: 02/01/16 15:23
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211163	02/12/16 11:52	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 20:40	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 20:53	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:47	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 00:17	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		5	101966	02/29/16 16:37	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Client Sample ID: 0216-08

Date Collected: 02/01/16 16:10
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211163	02/12/16 12:19	D1R	TAL SEA
Total/NA	Analysis	8260B	RA	1	211788	02/23/16 16:56	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 21:33	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 21:47	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:50	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 00:22	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		5	101966	02/29/16 16:39	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211319	02/04/16 20:11	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Client Sample ID: 0216-09

Date Collected: 02/01/16 16:25
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211163	02/12/16 12:47	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 22:00	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 22:14	JCB	TAL SL
Total/NA	Analysis	300.0	RADL	50	238092	02/27/16 00:40	JCB	TAL SL
Dissolved	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211059	02/05/16 13:53	SPP	TAL SEA
Total Recoverable	Prep	3005A			210906	02/04/16 11:44	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 00:27	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		1	101965	02/26/16 15:47	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Client Sample ID: 0216-10

Date Collected: 02/01/16 16:30
Date Received: 02/02/16 11:00

Lab Sample ID: 580-57012-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211163	02/12/16 13:14	D1R	TAL SEA
Total/NA	Analysis	8260B	RA	1	211788	02/23/16 17:24	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 22:27	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 22:40	JCB	TAL SL
Dissolved	Prep	3005A			211046	02/10/16 14:08	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211162	02/11/16 12:52	HJM	TAL SEA
Total Recoverable	Prep	3005A			211046	02/10/16 14:08	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 05:16	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			211113	02/05/16 13:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	211144	02/11/16 14:27	SPP	TAL SEA
Total/NA	Analysis	353.2		5	101966	02/29/16 16:41	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	210858	02/03/16 17:21	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Alkalinity
SM 5310B		Water	Total Organic Carbon

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Acrylonitrile
8260B		Water	Benzene
8260B		Water	Bromochloromethane
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Ethylbenzene
8260B		Water	m,p-Xylene
8260B		Water	Methyl iodide
8260B		Water	Methylene Chloride
8260B		Water	o-Xylene
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	trans-1,4-Dichloro-2-butene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl acetate
8260B		Water	Vinyl chloride
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Laboratory: TestAmerica Sacramento

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		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-17
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-17
Virginia	NELAP Secondary AB	3	460278	03-14-16 *
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-Q	01-29-16 *

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Laboratory: TestAmerica St. Louis (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
California	ELAP	9	2886	03-31-16 *
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-10-16 *
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-16 *
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57012-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-57012-1	0216-01	Water	02/01/16 11:20	02/02/16 11:00
580-57012-2	0216-02	Water	02/01/16 11:50	02/02/16 11:00
580-57012-3	0216-03	Water	02/01/16 12:20	02/02/16 11:00
580-57012-4	0216-04	Water	02/01/16 12:50	02/02/16 11:00
580-57012-5	0216-05	Water	02/01/16 14:19	02/02/16 11:00
580-57012-6	0216-06	Water	02/01/16 15:00	02/02/16 11:00
580-57012-7	0216-07	Water	02/01/16 15:23	02/02/16 11:00
580-57012-8	0216-08	Water	02/01/16 16:10	02/02/16 11:00
580-57012-9	0216-09	Water	02/01/16 16:25	02/02/16 11:00
580-57012-10	0216-10	Water	02/01/16 16:30	02/02/16 11:00

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

3/4/2016

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Sam Graber	2/2/16	26622
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
2405 140th Ave. NE, suite 107	(612) 940-2980	57012	
City / State / Zip Code	**Sampler / Lab Contact**		
Bellevue / WA / 98005	Sam Graber / Sarah Murphy		
Project Name and Location (State)	**Billing Contact**		
Island County Landfill, WA	Island Co.		
Contract/Purchase Order/Quote No.			

	Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alks/cond/hard	Total Metals	Diss. Metals	Ammonia	TOC	VOCs 8260B	TDS	Cl, F, SO4	Nitrate combo	Special Instructions/ Conditions of Receipt
-1	0216-01	2/1/16	1120		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X	
	0216-02		1150																					
-3	0216-03		1220																					
	0216-04		1250																					
-5	0216-05		1419																					
	0216-06		1500																					
-7	0216-07		1523																					
	0216-08		1610																					
-9	0216-09		1625																					
	0216-10		1630																					
-11	trip blank *		—																					* Please hold trip blanks until SCS decides what to do

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Sam Graber	2/2/16	1100	Francisco Luna, Jr	2/2/16	1100
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

580-57012 Chain of Custody

TAL-8274-580 (0210)

TB Art Cooler Cor 3.5 Unc 3.3
Cooler Dsc Ly Blue/Ash@Lab 132
Wet/Packs Packing Bubble
W#/0

TB Art Cooler Cor 3.4 Unc 3.2
Cooler Dsc Ly Blue/Ash@Lab 132
Wet/Packs Packing Bubble
W/0

TB Art Cooler Cor 4.0 Unc 3.8
Cooler Dsc Ly Blue/Ash@Lab 132
Wet/Packs Packing Bubble
W/0

TB Art Cooler Cor 2.3 Unc 2.1
Cooler Dsc Ly Blue/Ash@Lab 132
Wet/Packs Packing Bubble
W/0

5701R

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-36187.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 580-57012-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/12/2016			Preservation Codes:
City: Earth City	TAT Requested (days):			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)
State, Zip: MO, 63045	PO #:			Other:
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:	Project #: 58009563			
Project Name: Coupeville Solid Waste Facility GW	SSOW#:			
Site:				

Sample Identification - Client ID (Lab ID)	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)	300_ORGFM_28D/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-01 (580-57012-1)	2/1/16	11:20 Pacific		Water			X	1	
0216-02 (580-57012-2)	2/1/16	11:50 Pacific		Water			X	1	
0216-03 (580-57012-3)	2/1/16	12:20 Pacific		Water			X	1	
0216-04 (580-57012-4)	2/1/16	12:50 Pacific		Water			X	1	
0216-05 (580-57012-5)	2/1/16	14:19 Pacific		Water			X	1	
0216-06 (580-57012-6)	2/1/16	15:00 Pacific		Water			X	1	
0216-07 (580-57012-7)	2/1/16	15:23 Pacific		Water			X	1	
0216-08 (580-57012-8)	2/1/16	16:10 Pacific		Water			X	1	
0216-09 (580-57012-9)	2/1/16	16:25 Pacific		Water			X	1	
0216-10 (580-57012-10)	2/1/16	16:30 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed
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:	Company	Received by:	Date/Time:	Company
1	Brenda A. Goldi Brenda A. Goldi	2/22/16	STA TA		2/25/16 0900	TA-SR
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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: 2.5

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving	Phone	Murphy, Sarah A E-Mail: sarah.murphy@testamericainc.com		580-36183.1 Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 580-57012-1
Address: 880 Riverside Parkway,	Due Date Requested: 2/12/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Coupeville Solid Waste Facility GW	Project #: 58009563			
Site	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
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 - Client ID (Lab ID)	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 Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-01 (580-57012-1)	2/1/16	11:20 Pacific		Water			X	1	
0216-02 (580-57012-2)	2/1/16	11:50 Pacific		Water			X	1	
0216-03 (580-57012-3)	2/1/16	12:20 Pacific		Water			X	1	
0216-04 (580-57012-4)	2/1/16	12:50 Pacific		Water			X	1	
0216-05 (580-57012-5)	2/1/16	14:19 Pacific		Water			X	1	
0216-06 (580-57012-6)	2/1/16	15:00 Pacific		Water			X	1	
0216-07 (580-57012-7)	2/1/16	15:23 Pacific		Water			X	1	
0216-08 (580-57012-8)	2/1/16	16:10 Pacific		Water			X	1	
0216-09 (580-57012-9)	2/1/16	16:25 Pacific		Water			X	1	
0216-10 (580-57012-10)	2/1/16	16:30 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed
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	Company	Received by	Date/Time	Company
Brandon A. Hall Brandon A. Hall	2/22/16	SEA TA			
Relinquished by	Date/Time	Company	Received by	Date/Time	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

3/4/2016

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-36299.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah murphy@testamericainc com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 580-57012-1

Address	Due Date Requested:
880 Riverside Parkway, ,	2/12/2016
City: West Sacramento	TAT Requested (days):
State, Zip: CA, 95605	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #
Email	WO #
Project Name: Coupeville Solid Waste Facility GW	Project #: 58009563
Site	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
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 - Client ID (Lab ID)	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)	353.2/ Nitrate Nitrite Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
0216-01 (580-57012-1)	2/1/16	11.20 Pacific		Water		X		
0216-02 (580-57012-2)	2/1/16	11 50 Pacific		Water		X		
0216-03 (580-57012-3)	2/1/16	12 20 Pacific		Water		X		
0216-04 (580-57012-4)	2/1/16	12'50 Pacific		Water		X		
0216-05 (580-57012-5)	2/1/16	14 19 Pacific		Water		X		
0216-06 (580-57012-6)	2/1/16	15 00 Pacific		Water		X		
0216-07 (580-57012-7)	2/1/16	15 23 Pacific		Water		X		
0216-08 (580-57012-8)	2/1/16	16 10 Pacific		Water		X		
0216-10 (580-57012-10)	2/1/16	16.30 Pacific		Water		X		

Possible Hazard Identification
Unconfirmed

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
Tom Blanton	2/24/16	TA-Sea		2/25/16 1015	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		0-7

3/4/2016

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57012-1

Login Number: 57012
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57012-1

Login Number: 57012
List Number: 2
Creator: Sadler, Jeremy

List Source: TestAmerica Sacramento
List Creation: 02/23/16 11:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57012-1

Login Number: 57012
List Number: 3
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis
List Creation: 02/25/16 09:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-57054-1
Client Project/Site: Coupeville Solid Waste Facility GW

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
3/3/2016 2:53:29 PM

Sarah Murphy, Project Manager I
(253)922-2310
sarah.murphy@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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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Job ID: 580-57054-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/3/2016 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9º C, 1.0º C, 1.6º C and 1.9º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 580-211259 recovered above the upper control limit for trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0216-11 (580-57054-1), 0216-12 (580-57054-2), 0216-13 (580-57054-3), 0216-14 (580-57054-4), 0216-15 (580-57054-5), 0216-16 (580-57054-6), 0216-17 (580-57054-7), 0216-18 (580-57054-8), 0216-24 (580-57054-9), 0216-95 (580-57054-10), 0216-96 (580-57054-11), Trip Blank (580-57054-12) and (CCVIS 580-211259/2).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-211259 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, cis-1,3-Dichloropropene, Chlorodibromomethane, Chloromethane, 4-Methyl-2-pentanone and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0216-95 (580-57054-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Reanalysis of the following sample was performed outside of the analytical holding time for confirmation purposes due to failure of quality control parameters in the initial analysis. 0216-95 (580-57054-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8151A: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-210972 and analytical batch 580-211160 recovered outside control limits for Dinoseb. This target was biased high in the LCS and not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 300.0: The following samples in Anion batch 160-238018 were diluted to bring the concentrations of target analytes within the calibration range: 0216-11 (580-57054-1), 0216-12 (580-57054-2), 0216-13 (580-57054-3), 0216-14 (580-57054-4), 0216-15 (580-57054-5), 0216-16 (580-57054-6), 0216-17 (580-57054-7), 0216-18 (580-57054-8) and 0216-24 (580-57054-9). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples in Anion batch 160-238092 were diluted to bring the concentrations of target analytes within the calibration range: 0216-24 (580-57054-9). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following matrix spike (MS) in Anion batch 160-238018 was outside control limits for Fluoride: (580-57054-F-1 MS). Sample matrix interference is suspected, because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: Due to the high concentration of nitrite plus nitrate in the parent sample, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 320-102068 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) SM 2540C: The following samples were analyzed just outside of analytical holding time due to system outages. 0216-11 (580-57054-1), 0216-12 (580-57054-2), 0216-13 (580-57054-3), 0216-14 (580-57054-4), 0216-15 (580-57054-5), 0216-16 (580-57054-6), 0216-17 (580-57054-7), 0216-18 (580-57054-8) and 0216-24 (580-57054-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-57054-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client Sample ID: 0216-11
Date Collected: 02/02/16 10:44
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 14:14	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 14:14	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 14:14	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 14:14	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 14:14	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 14:14	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 14:14	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 14:14	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 14:14	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 14:14	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 14:14	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 14:14	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 14:14	1
2-Butanone	ND		15		ug/L			02/15/16 14:14	1
2-Hexanone	ND		2.0		ug/L			02/15/16 14:14	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 14:14	1
Acetone	ND		2.0		ug/L			02/15/16 14:14	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 14:14	1
Benzene	ND		0.20		ug/L			02/15/16 14:14	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 14:14	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 14:14	1
Bromoform	ND		0.50		ug/L			02/15/16 14:14	1
Bromomethane	ND		1.0		ug/L			02/15/16 14:14	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 14:14	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 14:14	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 14:14	1
Chloroethane	ND		0.50		ug/L			02/15/16 14:14	1
Chloroform	ND		0.20		ug/L			02/15/16 14:14	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 14:14	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 14:14	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 14:14	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 14:14	1
Dibromomethane	ND		0.20		ug/L			02/15/16 14:14	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 14:14	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 14:14	1
Methyl iodide	ND		0.50		ug/L			02/15/16 14:14	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 14:14	1
o-Xylene	ND		0.50		ug/L			02/15/16 14:14	1
Styrene	ND		0.50		ug/L			02/15/16 14:14	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 14:14	1
Toluene	ND		0.20		ug/L			02/15/16 14:14	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 14:14	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 14:14	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 14:14	1
Trichloroethene	ND		0.20		ug/L			02/15/16 14:14	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 14:14	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 14:14	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 14:14	1

Client Sample ID: 0216-11
Date Collected: 02/02/16 10:44
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 128*		*02/15/16 14:14*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/15/16 14:14*	*1*
Dibromofluoromethane (Surr)	*90*		*85 - 115*		*02/15/16 14:14*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/15/16 14:14*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*02/15/16 14:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.13**	**F1**	0.10		mg/L			02/25/16 22:54	1
Sulfate	**13**		0.50		mg/L			02/25/16 22:54	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**		4.0		mg/L			02/25/16 23:07	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**41**		1.1		mg/L		02/08/16 12:35	02/09/16 17:18	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 17:18	1
Magnesium	**27**		1.1		mg/L		02/08/16 12:35	02/09/16 17:18	1
Manganese	**0.078**		0.020		mg/L		02/08/16 12:35	02/09/16 17:18	1
Potassium	**10**		3.3		mg/L		02/08/16 12:35	02/09/16 17:18	1
Sodium	**34**		2.0		mg/L		02/08/16 12:35	02/09/16 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Arsenic	**0.015**		0.0010		mg/L		02/08/16 12:35	02/26/16 15:10	1
Barium	**0.036**		0.0012		mg/L		02/08/16 12:35	02/26/16 15:10	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Chromium	**0.00049**		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 15:10	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Nickel	ND		0.0030		mg/L		02/08/16 12:35	02/26/16 15:10	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:10	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:10	1
Vanadium	ND		0.0040		mg/L		02/08/16 12:35	02/26/16 15:10	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 13:24	1
Total Organic Carbon	**3.7**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**230**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**230**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-11
Date Collected: 02/02/16 10:44
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**330**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-12
Date Collected: 02/02/16 10:20
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 14:45	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 14:45	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 14:45	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 14:45	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 14:45	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 14:45	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 14:45	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 14:45	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 14:45	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 14:45	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 14:45	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 14:45	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 14:45	1
2-Butanone	ND		15		ug/L			02/15/16 14:45	1
2-Hexanone	ND		2.0		ug/L			02/15/16 14:45	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 14:45	1
Acetone	ND		2.0		ug/L			02/15/16 14:45	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 14:45	1
Benzene	ND		0.20		ug/L			02/15/16 14:45	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 14:45	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 14:45	1
Bromoform	ND		0.50		ug/L			02/15/16 14:45	1
Bromomethane	ND		1.0		ug/L			02/15/16 14:45	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 14:45	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 14:45	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 14:45	1
Chloroethane	ND		0.50		ug/L			02/15/16 14:45	1
Chloroform	ND		0.20		ug/L			02/15/16 14:45	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 14:45	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 14:45	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 14:45	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 14:45	1
Dibromomethane	ND		0.20		ug/L			02/15/16 14:45	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 14:45	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 14:45	1
Methyl iodide	ND		0.50		ug/L			02/15/16 14:45	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 14:45	1
o-Xylene	ND		0.50		ug/L			02/15/16 14:45	1
Styrene	ND		0.50		ug/L			02/15/16 14:45	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 14:45	1
Toluene	ND		0.20		ug/L			02/15/16 14:45	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 14:45	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 14:45	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 14:45	1
Trichloroethene	ND		0.20		ug/L			02/15/16 14:45	1
Trichlorofluoromethane	**1.2**		0.50		ug/L			02/15/16 14:45	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 14:45	1
Vinyl chloride	**0.28**		0.020		ug/L			02/15/16 14:45	1

Client Sample ID: 0216-12
Date Collected: 02/02/16 10:20
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 128*		*02/15/16 14:45*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*		*02/15/16 14:45*	*1*
Dibromofluoromethane (Surr)	*89*		*85 - 115*		*02/15/16 14:45*	*1*
Toluene-d8 (Surr)	*117*		*75 - 125*		*02/15/16 14:45*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 127*		*02/15/16 14:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 00:41	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26**		4.0		mg/L			02/26/16 00:55	20
Sulfate	**59**		10		mg/L			02/26/16 00:55	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		02/08/16 12:35	02/09/16 17:25	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 17:25	1
Magnesium	**69**		1.1		mg/L		02/08/16 12:35	02/09/16 17:25	1
Manganese	**0.38**		0.020		mg/L		02/08/16 12:35	02/09/16 17:25	1
Potassium	**7.6**		3.3		mg/L		02/08/16 12:35	02/09/16 17:25	1
Sodium	**32**		2.0		mg/L		02/08/16 12:35	02/09/16 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00047**		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Arsenic	**0.0020**		0.0010		mg/L		02/08/16 12:35	02/26/16 15:46	1
Barium	**0.066**		0.0012		mg/L		02/08/16 12:35	02/26/16 15:46	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Chromium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Cobalt	**0.0011**		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 15:46	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Nickel	**0.0050**		0.0030		mg/L		02/08/16 12:35	02/26/16 15:46	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:46	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:46	1
Vanadium	ND		0.0040		mg/L		02/08/16 12:35	02/26/16 15:46	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**8.4**		0.50		mg/L			03/01/16 14:13	10
Total Organic Carbon	**1.6**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**620**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**620**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-12
Date Collected: 02/02/16 10:20
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**800**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-13
Date Collected: 02/02/16 11:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 15:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 15:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 15:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 15:13	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 15:13	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 15:13	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 15:13	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 15:13	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 15:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 15:13	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 15:13	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 15:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 15:13	1
2-Butanone	ND		15		ug/L			02/15/16 15:13	1
2-Hexanone	ND		2.0		ug/L			02/15/16 15:13	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 15:13	1
Acetone	ND		2.0		ug/L			02/15/16 15:13	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 15:13	1
Benzene	ND		0.20		ug/L			02/15/16 15:13	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 15:13	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 15:13	1
Bromoform	ND		0.50		ug/L			02/15/16 15:13	1
Bromomethane	ND		1.0		ug/L			02/15/16 15:13	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 15:13	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 15:13	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 15:13	1
Chloroethane	ND		0.50		ug/L			02/15/16 15:13	1
Chloroform	ND		0.20		ug/L			02/15/16 15:13	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 15:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 15:13	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 15:13	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 15:13	1
Dibromomethane	ND		0.20		ug/L			02/15/16 15:13	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 15:13	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 15:13	1
Methyl iodide	ND		0.50		ug/L			02/15/16 15:13	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 15:13	1
o-Xylene	ND		0.50		ug/L			02/15/16 15:13	1
Styrene	ND		0.50		ug/L			02/15/16 15:13	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 15:13	1
Toluene	ND		0.20		ug/L			02/15/16 15:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 15:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 15:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 15:13	1
Trichloroethene	ND		0.20		ug/L			02/15/16 15:13	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 15:13	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 15:13	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 15:13	1

Client Sample ID: 0216-13
Date Collected: 02/02/16 11:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 128*		*02/15/16 15:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*		*02/15/16 15:13*	*1*
Dibromofluoromethane (Surr)	*91*		*85 - 115*		*02/15/16 15:13*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/15/16 15:13*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 127*		*02/15/16 15:13*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 01:08	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44**		4.0		mg/L			02/26/16 01:22	20
Sulfate	**36**		10		mg/L			02/26/16 01:22	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		02/08/16 12:35	02/09/16 17:31	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 17:31	1
Magnesium	**57**		1.1		mg/L		02/08/16 12:35	02/09/16 17:31	1
Manganese	ND		0.020		mg/L		02/08/16 12:35	02/09/16 17:31	1
Potassium	**6.6**		3.3		mg/L		02/08/16 12:35	02/09/16 17:31	1
Sodium	**32**		2.0		mg/L		02/08/16 12:35	02/09/16 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Arsenic	**0.0032**		0.0010		mg/L		02/08/16 12:35	02/26/16 15:51	1
Barium	**0.051**		0.0012		mg/L		02/08/16 12:35	02/26/16 15:51	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Chromium	**0.0056**		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 15:51	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Nickel	ND		0.0030		mg/L		02/08/16 12:35	02/26/16 15:51	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:51	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:51	1
Vanadium	**0.0065**		0.0040		mg/L		02/08/16 12:35	02/26/16 15:51	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**0.62**		0.050		mg/L			03/01/16 13:32	1
Total Organic Carbon	**1.3**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**530**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**530**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-13
Date Collected: 02/02/16 11:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**670**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-14
Date Collected: 02/02/16 11:23
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 15:40	1
1,1,1-Trichloroethane	**0.38**		0.20		ug/L			02/15/16 15:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 15:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 15:40	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 15:40	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 15:40	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 15:40	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 15:40	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 15:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 15:40	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 15:40	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 15:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 15:40	1
2-Butanone	ND		15		ug/L			02/15/16 15:40	1
2-Hexanone	ND		2.0		ug/L			02/15/16 15:40	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 15:40	1
Acetone	ND		2.0		ug/L			02/15/16 15:40	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 15:40	1
Benzene	ND		0.20		ug/L			02/15/16 15:40	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 15:40	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 15:40	1
Bromoform	ND		0.50		ug/L			02/15/16 15:40	1
Bromomethane	ND		1.0		ug/L			02/15/16 15:40	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 15:40	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 15:40	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 15:40	1
Chloroethane	ND		0.50		ug/L			02/15/16 15:40	1
Chloroform	ND		0.20		ug/L			02/15/16 15:40	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 15:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 15:40	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 15:40	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 15:40	1
Dibromomethane	ND		0.20		ug/L			02/15/16 15:40	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 15:40	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 15:40	1
Methyl iodide	ND		0.50		ug/L			02/15/16 15:40	1
Methylene Chloride	**0.88**		0.50		ug/L			02/15/16 15:40	1
o-Xylene	ND		0.50		ug/L			02/15/16 15:40	1
Styrene	ND		0.50		ug/L			02/15/16 15:40	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 15:40	1
Toluene	ND		0.20		ug/L			02/15/16 15:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 15:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 15:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 15:40	1
Trichloroethene	ND		0.20		ug/L			02/15/16 15:40	1
Trichlorofluoromethane	**2.2**		0.50		ug/L			02/15/16 15:40	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 15:40	1
Vinyl chloride	**28**		0.020		ug/L			02/15/16 15:40	1

Client Sample ID: 0216-14
Date Collected: 02/02/16 11:23
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*		*02/15/16 15:40*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/15/16 15:40*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*02/15/16 15:40*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/15/16 15:40*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*02/15/16 15:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 01:35	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**		4.0		mg/L			02/26/16 01:48	20
Sulfate	**55**		10		mg/L			02/26/16 01:48	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**240**		1.1		mg/L		02/08/16 12:35	02/09/16 17:38	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 17:38	1
Magnesium	**110**		1.1		mg/L		02/08/16 12:35	02/09/16 17:38	1
Manganese	**0.066**		0.020		mg/L		02/08/16 12:35	02/09/16 17:38	1
Potassium	**10**		3.3		mg/L		02/08/16 12:35	02/09/16 17:38	1
Sodium	**42**		2.0		mg/L		02/08/16 12:35	02/09/16 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Arsenic	**0.0027**		0.0010		mg/L		02/08/16 12:35	02/26/16 15:55	1
Barium	**0.056**		0.0012		mg/L		02/08/16 12:35	02/26/16 15:55	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Chromium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 15:55	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Nickel	**0.0079**		0.0030		mg/L		02/08/16 12:35	02/26/16 15:55	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:55	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 15:55	1
Vanadium	**0.0074**		0.0040		mg/L		02/08/16 12:35	02/26/16 15:55	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**3.3**		0.10		mg/L			03/01/16 14:19	2
Total Organic Carbon	**2.8**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**910**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**910**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-14
Date Collected: 02/02/16 11:23
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**1000**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-15
Date Collected: 02/02/16 13:48
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 16:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 16:07	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 16:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 16:07	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 16:07	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 16:07	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 16:07	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 16:07	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 16:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 16:07	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 16:07	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 16:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 16:07	1
2-Butanone	ND		15		ug/L			02/15/16 16:07	1
2-Hexanone	ND		2.0		ug/L			02/15/16 16:07	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 16:07	1
Acetone	ND		2.0		ug/L			02/15/16 16:07	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 16:07	1
Benzene	ND		0.20		ug/L			02/15/16 16:07	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 16:07	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 16:07	1
Bromoform	ND		0.50		ug/L			02/15/16 16:07	1
Bromomethane	ND		1.0		ug/L			02/15/16 16:07	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 16:07	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 16:07	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 16:07	1
Chloroethane	ND		0.50		ug/L			02/15/16 16:07	1
Chloroform	ND		0.20		ug/L			02/15/16 16:07	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 16:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 16:07	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 16:07	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 16:07	1
Dibromomethane	ND		0.20		ug/L			02/15/16 16:07	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 16:07	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 16:07	1
Methyl iodide	ND		0.50		ug/L			02/15/16 16:07	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 16:07	1
o-Xylene	ND		0.50		ug/L			02/15/16 16:07	1
Styrene	ND		0.50		ug/L			02/15/16 16:07	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 16:07	1
Toluene	ND		0.20		ug/L			02/15/16 16:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 16:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 16:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 16:07	1
Trichloroethene	ND		0.20		ug/L			02/15/16 16:07	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 16:07	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 16:07	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 16:07	1

Client Sample ID: 0216-15
Date Collected: 02/02/16 13:48
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 128*		*02/15/16 16:07*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/15/16 16:07*	*1*
Dibromofluoromethane (Surr)	*91*		*85 - 115*		*02/15/16 16:07*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/15/16 16:07*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 127*		*02/15/16 16:07*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 02:02	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39**		4.0		mg/L			02/26/16 02:15	20
Sulfate	**34**		10		mg/L			02/26/16 02:15	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**63**		1.1		mg/L		02/08/16 12:35	02/09/16 17:44	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 17:44	1
Magnesium	**37**		1.1		mg/L		02/08/16 12:35	02/09/16 17:44	1
Manganese	ND		0.020		mg/L		02/08/16 12:35	02/09/16 17:44	1
Potassium	**6.3**		3.3		mg/L		02/08/16 12:35	02/09/16 17:44	1
Sodium	**26**		2.0		mg/L		02/08/16 12:35	02/09/16 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Arsenic	**0.0078**		0.0010		mg/L		02/08/16 12:35	02/26/16 16:00	1
Barium	**0.023**		0.0012		mg/L		02/08/16 12:35	02/26/16 16:00	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Chromium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 16:00	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Nickel	ND		0.0030		mg/L		02/08/16 12:35	02/26/16 16:00	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:00	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:00	1
Vanadium	ND		0.0040		mg/L		02/08/16 12:35	02/26/16 16:00	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 13:36	1
Total Organic Carbon	**1.1**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**260**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**260**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-15
Date Collected: 02/02/16 13:48
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**390**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-16
Date Collected: 02/02/16 12:50
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 16:34	1
1,1,1-Trichloroethane	**0.61**		0.20		ug/L			02/15/16 16:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 16:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 16:34	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 16:34	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 16:34	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 16:34	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 16:34	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 16:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 16:34	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 16:34	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 16:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 16:34	1
2-Butanone	ND		15		ug/L			02/15/16 16:34	1
2-Hexanone	ND		2.0		ug/L			02/15/16 16:34	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 16:34	1
Acetone	ND		2.0		ug/L			02/15/16 16:34	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 16:34	1
Benzene	ND		0.20		ug/L			02/15/16 16:34	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 16:34	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 16:34	1
Bromoform	ND		0.50		ug/L			02/15/16 16:34	1
Bromomethane	ND		1.0		ug/L			02/15/16 16:34	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 16:34	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 16:34	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 16:34	1
Chloroethane	ND		0.50		ug/L			02/15/16 16:34	1
Chloroform	**0.24**		0.20		ug/L			02/15/16 16:34	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 16:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 16:34	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 16:34	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 16:34	1
Dibromomethane	ND		0.20		ug/L			02/15/16 16:34	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 16:34	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 16:34	1
Methyl iodide	ND		0.50		ug/L			02/15/16 16:34	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 16:34	1
o-Xylene	ND		0.50		ug/L			02/15/16 16:34	1
Styrene	ND		0.50		ug/L			02/15/16 16:34	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 16:34	1
Toluene	ND		0.20		ug/L			02/15/16 16:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 16:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 16:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 16:34	1
Trichloroethene	ND		0.20		ug/L			02/15/16 16:34	1
Trichlorofluoromethane	**6.2**		0.50		ug/L			02/15/16 16:34	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 16:34	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 16:34	1

Client Sample ID: 0216-16
Date Collected: 02/02/16 12:50
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 128*		*02/15/16 16:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*02/15/16 16:34*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/15/16 16:34*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/15/16 16:34*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 127*		*02/15/16 16:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 02:55	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		4.0		mg/L			02/26/16 03:09	20
Sulfate	**95**		10		mg/L			02/26/16 03:09	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		02/08/16 12:35	02/09/16 18:00	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 18:00	1
Magnesium	**86**		1.1		mg/L		02/08/16 12:35	02/09/16 18:00	1
Manganese	**0.081**		0.020		mg/L		02/08/16 12:35	02/09/16 18:00	1
Potassium	**7.7**		3.3		mg/L		02/08/16 12:35	02/09/16 18:00	1
Sodium	**30**		2.0		mg/L		02/08/16 12:35	02/09/16 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Arsenic	**0.0025**		0.0010		mg/L		02/08/16 12:35	02/26/16 16:04	1
Barium	**0.042**		0.0012		mg/L		02/08/16 12:35	02/26/16 16:04	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Chromium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 16:04	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Nickel	**0.0070**		0.0030		mg/L		02/08/16 12:35	02/26/16 16:04	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:04	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:04	1
Vanadium	**0.0047**		0.0040		mg/L		02/08/16 12:35	02/26/16 16:04	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**42**		1.3		mg/L			03/01/16 16:01	25
Total Organic Carbon	**2.2**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-16
Date Collected: 02/02/16 12:50
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-6
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**870**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-17
Date Collected: 02/02/16 15:10
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 17:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 17:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 17:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 17:01	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 17:01	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 17:01	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 17:01	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 17:01	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 17:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 17:01	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 17:01	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 17:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 17:01	1
2-Butanone	ND		15		ug/L			02/15/16 17:01	1
2-Hexanone	ND		2.0		ug/L			02/15/16 17:01	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 17:01	1
Acetone	ND		2.0		ug/L			02/15/16 17:01	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 17:01	1
Benzene	ND		0.20		ug/L			02/15/16 17:01	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 17:01	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 17:01	1
Bromoform	ND		0.50		ug/L			02/15/16 17:01	1
Bromomethane	ND		1.0		ug/L			02/15/16 17:01	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 17:01	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 17:01	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 17:01	1
Chloroethane	ND		0.50		ug/L			02/15/16 17:01	1
Chloroform	ND		0.20		ug/L			02/15/16 17:01	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 17:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 17:01	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 17:01	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 17:01	1
Dibromomethane	ND		0.20		ug/L			02/15/16 17:01	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 17:01	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 17:01	1
Methyl iodide	ND		0.50		ug/L			02/15/16 17:01	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 17:01	1
o-Xylene	ND		0.50		ug/L			02/15/16 17:01	1
Styrene	ND		0.50		ug/L			02/15/16 17:01	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 17:01	1
Toluene	ND		0.20		ug/L			02/15/16 17:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 17:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 17:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 17:01	1
Trichloroethene	ND		0.20		ug/L			02/15/16 17:01	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 17:01	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 17:01	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 17:01	1

Client Sample ID: 0216-17
Date Collected: 02/02/16 15:10
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 128*		*02/15/16 17:01*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/15/16 17:01*	*1*
Dibromofluoromethane (Surr)	*87*		*85 - 115*		*02/15/16 17:01*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/15/16 17:01*	*1*
Trifluorotoluene (Surr)	*108*		*80 - 127*		*02/15/16 17:01*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 03:22	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		4.0		mg/L			02/26/16 03:36	20
Sulfate	**57**		10		mg/L			02/26/16 03:36	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		1.1		mg/L		02/08/16 12:35	02/09/16 18:07	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 18:07	1
Magnesium	**33**		1.1		mg/L		02/08/16 12:35	02/09/16 18:07	1
Manganese	ND		0.020		mg/L		02/08/16 12:35	02/09/16 18:07	1
Potassium	**5.5**		3.3		mg/L		02/08/16 12:35	02/09/16 18:07	1
Sodium	**18**		2.0		mg/L		02/08/16 12:35	02/09/16 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Arsenic	**0.0032**		0.0010		mg/L		02/08/16 12:35	02/26/16 16:09	1
Barium	**0.033**		0.0012		mg/L		02/08/16 12:35	02/26/16 16:09	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Chromium	**0.0040**		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Copper	**0.0034**		0.0020		mg/L		02/08/16 12:35	02/26/16 16:09	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Nickel	**0.0055**		0.0030		mg/L		02/08/16 12:35	02/26/16 16:09	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:09	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:09	1
Vanadium	**0.0060**		0.0040		mg/L		02/08/16 12:35	02/26/16 16:09	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**4.7**		0.25		mg/L			03/01/16 14:23	5
Total Organic Carbon	**1.3**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-17
Date Collected: 02/02/16 15:10
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**470**	**H**	10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-18
Date Collected: 02/02/16 16:00
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 17:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 17:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 17:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 17:28	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 17:28	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 17:28	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 17:28	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 17:28	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 17:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 17:28	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 17:28	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 17:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 17:28	1
2-Butanone	ND		15		ug/L			02/15/16 17:28	1
2-Hexanone	ND		2.0		ug/L			02/15/16 17:28	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 17:28	1
Acetone	ND		2.0		ug/L			02/15/16 17:28	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 17:28	1
Benzene	ND		0.20		ug/L			02/15/16 17:28	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 17:28	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 17:28	1
Bromoform	ND		0.50		ug/L			02/15/16 17:28	1
Bromomethane	ND		1.0		ug/L			02/15/16 17:28	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 17:28	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 17:28	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 17:28	1
Chloroethane	ND		0.50		ug/L			02/15/16 17:28	1
Chloroform	ND		0.20		ug/L			02/15/16 17:28	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 17:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 17:28	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 17:28	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 17:28	1
Dibromomethane	ND		0.20		ug/L			02/15/16 17:28	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 17:28	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 17:28	1
Methyl iodide	ND		0.50		ug/L			02/15/16 17:28	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 17:28	1
o-Xylene	ND		0.50		ug/L			02/15/16 17:28	1
Styrene	ND		0.50		ug/L			02/15/16 17:28	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 17:28	1
Toluene	ND		0.20		ug/L			02/15/16 17:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 17:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 17:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 17:28	1
Trichloroethene	ND		0.20		ug/L			02/15/16 17:28	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 17:28	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 17:28	1
Vinyl chloride	**0.25**		0.020		ug/L			02/15/16 17:28	1

Client Sample ID: 0216-18
Date Collected: 02/02/16 16:00
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 128*		*02/15/16 17:28*	*1*
4-Bromofluorobenzene (Surr)	*85*		*75 - 120*		*02/15/16 17:28*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*02/15/16 17:28*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/15/16 17:28*	*1*
Trifluorotoluene (Surr)	*110*		*80 - 127*		*02/15/16 17:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 03:49	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81**		4.0		mg/L			02/26/16 04:03	20
Sulfate	**45**		10		mg/L			02/26/16 04:03	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		02/08/16 12:35	02/09/16 18:14	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 18:14	1
Magnesium	**110**		1.1		mg/L		02/08/16 12:35	02/09/16 18:14	1
Manganese	**0.039**		0.020		mg/L		02/08/16 12:35	02/09/16 18:14	1
Potassium	**9.4**		3.3		mg/L		02/08/16 12:35	02/09/16 18:14	1
Sodium	**46**		2.0		mg/L		02/08/16 12:35	02/09/16 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Arsenic	**0.0050**		0.0010		mg/L		02/08/16 12:35	02/26/16 16:14	1
Barium	**0.050**		0.0012		mg/L		02/08/16 12:35	02/26/16 16:14	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Chromium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Cobalt	**0.00072**		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 16:14	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Nickel	**0.0056**		0.0030		mg/L		02/08/16 12:35	02/26/16 16:14	1
Selenium	**0.0012**		0.0010		mg/L		02/08/16 12:35	02/26/16 16:14	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 16:14	1
Vanadium	**0.0068**		0.0040		mg/L		02/08/16 12:35	02/26/16 16:14	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**0.079**		0.050		mg/L			03/01/16 14:25	1
Total Organic Carbon	**2.1**		1.0		mg/L			02/15/16 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**760**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**760**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-18
Date Collected: 02/02/16 16:00
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**960**	**H**	10		mg/L			02/16/16 19:20	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-24
Date Collected: 02/02/16 16:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 17:55	1
1,1,1-Trichloroethane	**0.33**		0.20		ug/L			02/15/16 17:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 17:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 17:55	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 17:55	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 17:55	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 17:55	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 17:55	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 17:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 17:55	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 17:55	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 17:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 17:55	1
2-Butanone	ND		15		ug/L			02/15/16 17:55	1
2-Hexanone	ND		2.0		ug/L			02/15/16 17:55	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 17:55	1
Acetone	ND		2.0		ug/L			02/15/16 17:55	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 17:55	1
Benzene	ND		0.20		ug/L			02/15/16 17:55	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 17:55	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 17:55	1
Bromoform	ND		0.50		ug/L			02/15/16 17:55	1
Bromomethane	ND		1.0		ug/L			02/15/16 17:55	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 17:55	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 17:55	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 17:55	1
Chloroethane	ND		0.50		ug/L			02/15/16 17:55	1
Chloroform	ND		0.20		ug/L			02/15/16 17:55	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 17:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 17:55	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 17:55	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 17:55	1
Dibromomethane	ND		0.20		ug/L			02/15/16 17:55	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 17:55	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 17:55	1
Methyl iodide	ND		0.50		ug/L			02/15/16 17:55	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 17:55	1
o-Xylene	ND		0.50		ug/L			02/15/16 17:55	1
Styrene	ND		0.50		ug/L			02/15/16 17:55	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 17:55	1
Toluene	ND		0.20		ug/L			02/15/16 17:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 17:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 17:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 17:55	1
Trichloroethene	ND		0.20		ug/L			02/15/16 17:55	1
Trichlorofluoromethane	**2.1**		0.50		ug/L			02/15/16 17:55	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 17:55	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 17:55	1

Client Sample ID: 0216-24
Date Collected: 02/02/16 16:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*		*02/15/16 17:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/15/16 17:55*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*02/15/16 17:55*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/15/16 17:55*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*02/15/16 17:55*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
2,4-D	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
2,4-DB	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
4-Nitrophenol	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
Dalapon	ND		0.39		ug/L		02/09/16 11:03	02/11/16 21:08	1
Dicamba	**3.2**		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
Dichlorprop	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
Dinoseb	ND	*	0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
MCPA	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
Mecoprop	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
Pentachlorophenol	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1
Silvex (2,4,5-TP)	ND		0.24		ug/L		02/09/16 11:03	02/11/16 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*123*		*44 - 150*	*02/09/16 11:03*	*02/11/16 21:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 04:16	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**39**		10		mg/L			02/26/16 04:29	20

Method: 300.0 - Anions, Ion Chromatography - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96**		10		mg/L			02/27/16 00:54	50

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		02/10/16 14:08	02/11/16 12:55	1
Iron	ND		0.30		mg/L		02/10/16 14:08	02/11/16 12:55	1
Magnesium	**55**		1.1		mg/L		02/10/16 14:08	02/11/16 12:55	1
Manganese	ND		0.020		mg/L		02/10/16 14:08	02/11/16 12:55	1
Potassium	**6.3**		3.3		mg/L		02/10/16 14:08	02/11/16 12:55	1
Sodium	**29**		2.0		mg/L		02/10/16 14:08	02/11/16 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Arsenic	**0.0017**		0.0010		mg/L		02/10/16 14:08	02/12/16 05:20	1
Barium	**0.039**		0.0012		mg/L		02/10/16 14:08	02/12/16 05:20	1
Beryllium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Cadmium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-24
Date Collected: 02/02/16 16:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.013**		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Cobalt	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Copper	ND		0.0020		mg/L		02/10/16 14:08	02/12/16 05:20	1
Lead	**0.00054**		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Nickel	**0.0030**		0.0030		mg/L		02/10/16 14:08	02/12/16 05:20	1
Selenium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 05:20	1
Silver	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Thallium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 05:20	1
Vanadium	**0.0041**		0.0040		mg/L		02/10/16 14:08	02/12/16 05:20	1
Zinc	ND		0.0070		mg/L		02/10/16 14:08	02/12/16 05:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**12**		0.50		mg/L			03/01/16 14:27	10
Total Organic Carbon	**1.8**		1.0		mg/L			02/16/16 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**660**	**H**	10		mg/L			02/16/16 19:20	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-95
Date Collected: 02/02/16 14:06
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 18:22	1
1,1,1-Trichloroethane	**1.0**		0.20		ug/L			02/15/16 18:22	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 18:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 18:22	1
1,1-Dichloroethane	**2.4**		0.20		ug/L			02/15/16 18:22	1
1,1-Dichloroethene	**3.0**		0.10		ug/L			02/15/16 18:22	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 18:22	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 18:22	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 18:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 18:22	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 18:22	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 18:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 18:22	1
2-Butanone	ND		15		ug/L			02/15/16 18:22	1
2-Hexanone	ND		2.0		ug/L			02/15/16 18:22	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 18:22	1
Acetone	ND		2.0		ug/L			02/15/16 18:22	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 18:22	1
Benzene	ND		0.20		ug/L			02/15/16 18:22	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 18:22	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 18:22	1
Bromoform	ND		0.50		ug/L			02/15/16 18:22	1
Bromomethane	ND		1.0		ug/L			02/15/16 18:22	1
Carbon disulfide	**0.37**		0.20		ug/L			02/15/16 18:22	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 18:22	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 18:22	1
Chloroethane	ND		0.50		ug/L			02/15/16 18:22	1
Chloroform	**0.27**		0.20		ug/L			02/15/16 18:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 18:22	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 18:22	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 18:22	1
Dibromomethane	ND		0.20		ug/L			02/15/16 18:22	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 18:22	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 18:22	1
Methyl iodide	ND		0.50		ug/L			02/15/16 18:22	1
Methylene Chloride	**0.61**		0.50		ug/L			02/15/16 18:22	1
o-Xylene	ND		0.50		ug/L			02/15/16 18:22	1
Styrene	ND		0.50		ug/L			02/15/16 18:22	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 18:22	1
Toluene	ND		0.20		ug/L			02/15/16 18:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 18:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 18:22	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 18:22	1
Trichloroethene	ND		0.20		ug/L			02/15/16 18:22	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 18:22	1
Vinyl chloride	**8.5**		0.020		ug/L			02/15/16 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*		*02/15/16 18:22*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-95
Date Collected: 02/02/16 14:06
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 120		02/15/16 18:22	1
Dibromofluoromethane (Surr)	99		85 - 115		02/15/16 18:22	1
Toluene-d8 (Surr)	111		75 - 125		02/15/16 18:22	1
Trifluorotoluene (Surr)	100		80 - 127		02/15/16 18:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	1.5		ug/L			02/23/16 14:20	5
Trichlorofluoromethane	**65**	**H**	2.5		ug/L			02/23/16 14:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 128		02/23/16 14:20	5
4-Bromofluorobenzene (Surr)	93		75 - 120		02/23/16 14:20	5
Dibromofluoromethane (Surr)	93		85 - 115		02/23/16 14:20	5
Toluene-d8 (Surr)	106		75 - 125		02/23/16 14:20	5
Trifluorotoluene (Surr)	97		80 - 127		02/23/16 14:20	5

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-96
Date Collected: 02/02/16 15:01
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 18:49	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 18:49	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 18:49	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 18:49	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 18:49	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 18:49	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 18:49	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 18:49	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 18:49	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 18:49	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 18:49	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 18:49	1
2-Butanone	ND		15		ug/L			02/15/16 18:49	1
2-Hexanone	ND		2.0		ug/L			02/15/16 18:49	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 18:49	1
Acetone	ND		2.0		ug/L			02/15/16 18:49	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 18:49	1
Benzene	ND		0.20		ug/L			02/15/16 18:49	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 18:49	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 18:49	1
Bromoform	ND		0.50		ug/L			02/15/16 18:49	1
Bromomethane	ND		1.0		ug/L			02/15/16 18:49	1
Carbon disulfide	**0.25**		0.20		ug/L			02/15/16 18:49	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 18:49	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 18:49	1
Chloroethane	ND		0.50		ug/L			02/15/16 18:49	1
Chloroform	ND		0.20		ug/L			02/15/16 18:49	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 18:49	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 18:49	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 18:49	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 18:49	1
Dibromomethane	ND		0.20		ug/L			02/15/16 18:49	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 18:49	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 18:49	1
Methyl iodide	ND		0.50		ug/L			02/15/16 18:49	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 18:49	1
o-Xylene	ND		0.50		ug/L			02/15/16 18:49	1
Styrene	ND		0.50		ug/L			02/15/16 18:49	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 18:49	1
Toluene	ND		0.20		ug/L			02/15/16 18:49	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 18:49	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 18:49	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 18:49	1
Trichloroethene	ND		0.20		ug/L			02/15/16 18:49	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 18:49	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 18:49	1
Vinyl chloride	**0.035**		0.020		ug/L			02/15/16 18:49	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-96
Date Collected: 02/02/16 15:01
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 128		02/15/16 18:49	1
4-Bromofluorobenzene (Surr)	100		75 - 120		02/15/16 18:49	1
Dibromofluoromethane (Surr)	100		85 - 115		02/15/16 18:49	1
Toluene-d8 (Surr)	107		75 - 125		02/15/16 18:49	1
Trifluorotoluene (Surr)	102		80 - 127		02/15/16 18:49	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: Trip Blank
Date Collected: 02/02/16 00:01
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 11:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 11:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 11:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 11:59	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 11:59	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 11:59	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/15/16 11:59	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/15/16 11:59	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 11:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 11:59	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 11:59	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 11:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 11:59	1
2-Butanone	ND		15		ug/L			02/15/16 11:59	1
2-Hexanone	ND		2.0		ug/L			02/15/16 11:59	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/15/16 11:59	1
Acetone	ND		2.0		ug/L			02/15/16 11:59	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 11:59	1
Benzene	ND		0.20		ug/L			02/15/16 11:59	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 11:59	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 11:59	1
Bromoform	ND		0.50		ug/L			02/15/16 11:59	1
Bromomethane	ND		1.0		ug/L			02/15/16 11:59	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 11:59	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 11:59	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 11:59	1
Chloroethane	ND		0.50		ug/L			02/15/16 11:59	1
Chloroform	ND		0.20		ug/L			02/15/16 11:59	1
Chloromethane	ND	*	0.30		ug/L			02/15/16 11:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 11:59	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/15/16 11:59	1
Dibromochloromethane	ND	*	0.20		ug/L			02/15/16 11:59	1
Dibromomethane	ND		0.20		ug/L			02/15/16 11:59	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 11:59	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 11:59	1
Methyl iodide	ND		0.50		ug/L			02/15/16 11:59	1
Methylene Chloride	ND	*	0.50		ug/L			02/15/16 11:59	1
o-Xylene	ND		0.50		ug/L			02/15/16 11:59	1
Styrene	ND		0.50		ug/L			02/15/16 11:59	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 11:59	1
Toluene	ND		0.20		ug/L			02/15/16 11:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 11:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 11:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 11:59	1
Trichloroethene	ND		0.20		ug/L			02/15/16 11:59	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 11:59	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 11:59	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 11:59	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: Trip Blank
Date Collected: 02/02/16 00:01
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 128		02/15/16 11:59	1
4-Bromofluorobenzene (Surr)	95		75 - 120		02/15/16 11:59	1
Dibromofluoromethane (Surr)	103		85 - 115		02/15/16 11:59	1
Toluene-d8 (Surr)	101		75 - 125		02/15/16 11:59	1
Trifluorotoluene (Surr)	94		80 - 127		02/15/16 11:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-211259/4
Matrix: Water
Analysis Batch: 211259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 09:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/15/16 09:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/15/16 09:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/15/16 09:29	1
1,1-Dichloroethane	ND		0.20		ug/L			02/15/16 09:29	1
1,1-Dichloroethene	ND		0.10		ug/L			02/15/16 09:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/15/16 09:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/15/16 09:29	1
1,2-Dibromoethane	ND		0.10		ug/L			02/15/16 09:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/15/16 09:29	1
1,2-Dichloroethane	ND		0.20		ug/L			02/15/16 09:29	1
1,2-Dichloropropane	ND		0.20		ug/L			02/15/16 09:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/15/16 09:29	1
2-Butanone	ND		15		ug/L			02/15/16 09:29	1
2-Hexanone	ND		2.0		ug/L			02/15/16 09:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/15/16 09:29	1
Acetone	ND		2.0		ug/L			02/15/16 09:29	1
Acrylonitrile	ND		5.0		ug/L			02/15/16 09:29	1
Benzene	ND		0.20		ug/L			02/15/16 09:29	1
Bromochloromethane	ND		0.20		ug/L			02/15/16 09:29	1
Bromodichloromethane	ND		0.20		ug/L			02/15/16 09:29	1
Bromoform	ND		0.50		ug/L			02/15/16 09:29	1
Bromomethane	ND		1.0		ug/L			02/15/16 09:29	1
Carbon disulfide	ND		0.20		ug/L			02/15/16 09:29	1
Carbon tetrachloride	ND		0.20		ug/L			02/15/16 09:29	1
Chlorobenzene	ND		0.20		ug/L			02/15/16 09:29	1
Chloroethane	ND		0.50		ug/L			02/15/16 09:29	1
Chloroform	ND		0.20		ug/L			02/15/16 09:29	1
Chloromethane	ND		0.30		ug/L			02/15/16 09:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 09:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/15/16 09:29	1
Dibromochloromethane	ND		0.20		ug/L			02/15/16 09:29	1
Dibromomethane	ND		0.20		ug/L			02/15/16 09:29	1
Ethylbenzene	ND		0.20		ug/L			02/15/16 09:29	1
m,p-Xylene	ND		0.50		ug/L			02/15/16 09:29	1
Methyl iodide	ND		0.50		ug/L			02/15/16 09:29	1
Methylene Chloride	ND		0.50		ug/L			02/15/16 09:29	1
o-Xylene	ND		0.50		ug/L			02/15/16 09:29	1
Styrene	ND		0.50		ug/L			02/15/16 09:29	1
Tetrachloroethene	ND		0.50		ug/L			02/15/16 09:29	1
Toluene	ND		0.20		ug/L			02/15/16 09:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/15/16 09:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/15/16 09:29	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/15/16 09:29	1
Trichloroethene	ND		0.20		ug/L			02/15/16 09:29	1
Trichlorofluoromethane	ND		0.50		ug/L			02/15/16 09:29	1
Vinyl acetate	ND		1.0		ug/L			02/15/16 09:29	1
Vinyl chloride	ND		0.020		ug/L			02/15/16 09:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*		*02/15/16 09:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/15/16 09:29*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*02/15/16 09:29*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/15/16 09:29*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*02/15/16 09:29*	*1*

Lab Sample ID: LCS 580-211259/5
Matrix: Water
Analysis Batch: 211259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	5.89		ug/L		117	75 - 125
1,1,1-Trichloroethane	5.02	5.89		ug/L		117	80 - 140
1,1,2,2-Tetrachloroethane	5.01	5.47		ug/L		109	75 - 125
1,1,2-Trichloroethane	5.02	5.73		ug/L		114	80 - 130
1,1-Dichloroethane	5.00	5.02		ug/L		100	75 - 135
1,1-Dichloroethene	5.04	5.09		ug/L		101	70 - 150
1,2,3-Trichloropropane	5.01	6.82	*	ug/L		136	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	6.55	*	ug/L		131	55 - 120
1,2-Dibromoethane	5.01	6.05		ug/L		121	70 - 130
1,2-Dichlorobenzene	5.00	4.89		ug/L		98	80 - 130
1,2-Dichloroethane	5.00	6.29		ug/L		126	80 - 140
1,2-Dichloropropane	5.00	4.66		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.01	4.64		ug/L		92	80 - 120
2-Butanone	20.0	26.5		ug/L		132	20 - 200
2-Hexanone	20.0	30.6		ug/L		153	52 - 160
4-Methyl-2-pentanone	20.0	28.3	*	ug/L		141	55 - 135
Acetone	20.0	12.6		ug/L		63	30 - 200
Acrylonitrile	50.0	50.5		ug/L		101	65 - 150
Benzene	5.02	4.50		ug/L		90	80 - 120
Bromochloromethane	5.01	4.99		ug/L		100	80 - 125
Bromodichloromethane	5.02	5.88		ug/L		117	80 - 125
Bromoform	5.02	5.75		ug/L		115	65 - 130
Bromomethane	5.01	4.51		ug/L		90	70 - 135
Carbon disulfide	5.02	4.86		ug/L		97	65 - 160
Carbon tetrachloride	5.01	6.15		ug/L		123	75 - 140
Chlorobenzene	5.02	4.77		ug/L		95	80 - 120
Chloroethane	5.02	4.40		ug/L		88	75 - 140
Chloroform	5.00	5.13		ug/L		102	80 - 130
Chloromethane	5.02	7.24	*	ug/L		144	50 - 140
cis-1,2-Dichloroethene	5.01	4.63		ug/L		93	80 - 130
cis-1,3-Dichloropropene	5.01	6.60	*	ug/L		132	70 - 120
Dibromochloromethane	5.01	6.81	*	ug/L		136	70 - 120
Dibromomethane	5.02	5.45		ug/L		109	80 - 130
Ethylbenzene	5.02	5.38		ug/L		107	80 - 125
m,p-Xylene	5.01	5.67		ug/L		113	80 - 130
Methyl iodide	5.02	4.70		ug/L		94	60 - 160
Methylene Chloride	5.02	4.87		ug/L		97	60 - 145
o-Xylene	5.01	5.82		ug/L		116	80 - 120
Styrene	5.01	5.55		ug/L		111	75 - 130
Tetrachloroethene	5.01	5.22		ug/L		104	40 - 180
Toluene	5.00	5.19		ug/L		104	80 - 120
trans-1,2-Dichloroethene	5.01	4.69		ug/L		94	80 - 140
trans-1,3-Dichloropropene	5.00	6.69		ug/L		134	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211259/5
Matrix: Water
Analysis Batch: 211259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	6.43		ug/L		129	40 - 140
Trichloroethene	5.01	4.93		ug/L		98	80 - 130
Trichlorofluoromethane	5.00	5.60		ug/L		112	30 - 180
Vinyl acetate	12.5	14.6		ug/L		117	30 - 200
Vinyl chloride	5.03	5.27		ug/L		105	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*
Dibromofluoromethane (Surr)	*95*		*85 - 115*
Toluene-d8 (Surr)	*107*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*80 - 127*

Lab Sample ID: LCSD 580-211259/6
Matrix: Water
Analysis Batch: 211259

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
1,1,1,2-Tetrachloroethane	5.02	5.66		ug/L		113	75 - 125	4	20
1,1,1-Trichloroethane	5.02	6.08		ug/L		121	80 - 140	3	20
1,1,2,2-Tetrachloroethane	5.01	5.46		ug/L		109	75 - 125	0	20
1,1,2-Trichloroethane	5.02	5.59		ug/L		112	80 - 130	2	20
1,1-Dichloroethane	5.00	5.04		ug/L		101	75 - 135	0	20
1,1-Dichloroethene	5.04	4.67		ug/L		93	70 - 150	9	20
1,2,3-Trichloropropane	5.01	6.50	*	ug/L		130	75 - 120	5	20
1,2-Dibromo-3-Chloropropane	5.01	6.14	*	ug/L		122	55 - 120	7	20
1,2-Dibromoethane	5.01	5.83		ug/L		116	70 - 130	4	20
1,2-Dichlorobenzene	5.00	4.99		ug/L		100	80 - 130	2	20
1,2-Dichloroethane	5.00	6.39		ug/L		128	80 - 140	2	20
1,2-Dichloropropane	5.00	4.69		ug/L		94	80 - 120	1	20
1,4-Dichlorobenzene	5.01	4.86		ug/L		97	80 - 120	5	20
2-Butanone	20.0	30.6		ug/L		153	20 - 200	14	20
2-Hexanone	20.0	30.0		ug/L		150	52 - 160	2	20
4-Methyl-2-pentanone	20.0	27.5	*	ug/L		137	55 - 135	3	20
Acetone	20.0	13.0		ug/L		65	30 - 200	4	20
Acrylonitrile	50.0	49.4		ug/L		99	65 - 150	2	20
Benzene	5.02	4.60		ug/L		92	80 - 120	2	20
Bromochloromethane	5.01	5.14		ug/L		103	80 - 125	3	20
Bromodichloromethane	5.02	5.93		ug/L		118	80 - 125	1	20
Bromoform	5.02	5.44		ug/L		108	65 - 130	6	20
Bromomethane	5.01	4.99		ug/L		100	70 - 135	10	20
Carbon disulfide	5.02	4.79		ug/L		95	65 - 160	2	20
Carbon tetrachloride	5.01	6.18		ug/L		123	75 - 140	1	20
Chlorobenzene	5.02	4.85		ug/L		97	80 - 120	2	20
Chloroethane	5.02	4.63		ug/L		92	75 - 140	5	20
Chloroform	5.00	5.18		ug/L		104	80 - 130	1	20
Chloromethane	5.02	7.38	*	ug/L		147	50 - 140	2	20
cis-1,2-Dichloroethene	5.01	4.82		ug/L		96	80 - 130	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-211259/6
Matrix: Water
Analysis Batch: 211259

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
cis-1,3-Dichloropropene	5.01	6.15	*	ug/L		123	70 - 120	7	20
Dibromochloromethane	5.01	6.55	*	ug/L		131	70 - 120	4	20
Dibromomethane	5.02	5.35		ug/L		107	80 - 130	2	20
Ethylbenzene	5.02	5.45		ug/L		109	80 - 125	1	20
m,p-Xylene	5.01	5.70		ug/L		114	80 - 130	1	20
Methyl iodide	5.02	5.03		ug/L		100	60 - 160	7	20
Methylene Chloride	5.02	4.72		ug/L		94	60 - 145	3	20
o-Xylene	5.01	5.65		ug/L		113	80 - 120	3	20
Styrene	5.01	5.65		ug/L		113	75 - 130	2	20
Tetrachloroethene	5.01	5.17		ug/L		103	40 - 180	1	20
Toluene	5.00	5.05		ug/L		101	80 - 120	3	20
trans-1,2-Dichloroethene	5.01	4.93		ug/L		98	80 - 140	5	20
trans-1,3-Dichloropropene	5.00	6.48		ug/L		130	60 - 140	3	20
trans-1,4-Dichloro-2-butene	5.00	6.35		ug/L		127	40 - 140	1	20
Trichloroethene	5.01	4.90		ug/L		98	80 - 130	1	20
Trichlorofluoromethane	5.00	6.05		ug/L		121	30 - 180	8	20
Vinyl acetate	12.5	14.0		ug/L		112	30 - 200	5	20
Vinyl chloride	5.03	5.16		ug/L		103	65 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*103*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*80 - 127*

Lab Sample ID: MB 580-211788/4
Matrix: Water
Analysis Batch: 211788

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50		ug/L			02/23/16 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 128*		*02/23/16 10:07*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/23/16 10:07*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*02/23/16 10:07*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*02/23/16 10:07*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*02/23/16 10:07*	*1*

Lab Sample ID: LCS 580-211788/5
Matrix: Water
Analysis Batch: 211788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	5.00	5.55		ug/L		111	30 - 180

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211788/5
Matrix: Water
Analysis Batch: 211788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*104*		*75 - 125*
Trifluorotoluene (Surr)	*94*		*80 - 127*

Lab Sample ID: LCSD 580-211788/6
Matrix: Water
Analysis Batch: 211788

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
Trichlorofluoromethane			5.00	5.53		ug/L		111	30 - 180	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 128*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*103*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*80 - 127*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-210972/1-A
Matrix: Water
Analysis Batch: 211160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 210972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
2,4-D	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
2,4-DB	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
4-Nitrophenol	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
Dalapon	ND		0.40		ug/L		02/09/16 11:03	02/11/16 20:00	1
Dicamba	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
Dichlorprop	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
Dinoseb	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
MCPA	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
Mecoprop	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
Pentachlorophenol	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		02/09/16 11:03	02/11/16 20:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*135*		*44 - 150*	*02/09/16 11:03*	*02/11/16 20:00*	*1*

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: LCS 580-210972/2-A
Matrix: Water
Analysis Batch: 211160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 210972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	5.89		ug/L		118	47 - 154
2,4-D	5.00	5.73		ug/L		115	45 - 149
2,4-DB	5.05	7.55		ug/L		150	54 - 160
4-Nitrophenol	5.00	6.50		ug/L		130	33 - 137
Dalapon	5.00	1.35		ug/L		27	20 - 140
Dicamba	5.00	3.88		ug/L		78	26 - 130
Dichlorprop	5.00	5.88		ug/L		118	33 - 146
Dinoseb	5.00	9.86	*	ug/L		197	35 - 142
MCPA	5.00	5.99		ug/L		120	42 - 138
Mecoprop	5.00	5.69		ug/L		114	47 - 160
Pentachlorophenol	5.00	5.92		ug/L		118	37 - 144
Silvex (2,4,5-TP)	5.00	5.46		ug/L		109	53 - 148

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*131*		*44 - 150*

Lab Sample ID: LCSD 580-210972/3-A
Matrix: Water
Analysis Batch: 211160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 210972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	5.00	6.29		ug/L		126	47 - 154	7	30
2,4-D	5.00	6.18		ug/L		124	45 - 149	7	30
2,4-DB	5.05	7.84		ug/L		155	54 - 160	4	30
4-Nitrophenol	5.00	6.69		ug/L		134	33 - 137	3	30
Dalapon	5.00	1.13		ug/L		23	20 - 140	18	30
Dicamba	5.00	4.42		ug/L		88	26 - 130	13	30
Dichlorprop	5.00	5.77		ug/L		115	33 - 146	2	30
Dinoseb	5.00	10.1	*	ug/L		201	35 - 142	2	30
MCPA	5.00	6.14		ug/L		123	42 - 138	2	30
Mecoprop	5.00	5.63		ug/L		113	47 - 160	1	30
Pentachlorophenol	5.00	5.90		ug/L		118	37 - 144	0	30
Silvex (2,4,5-TP)	5.00	5.29		ug/L		106	53 - 148	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*130*		*44 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-238018/3
Matrix: Water
Analysis Batch: 238018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/25/16 15:28	1
Chloride	ND		0.20		mg/L			02/25/16 15:28	1
Sulfate	ND		0.50		mg/L			02/25/16 15:28	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-238018/4
Matrix: Water
Analysis Batch: 238018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	0.967		mg/L		97	90 - 110
Chloride	2.00	1.87		mg/L		93	90 - 110
Sulfate	8.00	7.53		mg/L		94	90 - 110

Lab Sample ID: 580-57054-1 MS
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.13	F1	2.00	2.53	E F1	mg/L		120	90 - 110
Sulfate	13		4.00	17.6		mg/L		104	90 - 110

Lab Sample ID: 580-57054-1 DU
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.13	F1	0.133		mg/L		0.8	20
Sulfate	13		13.5		mg/L		0	20

Lab Sample ID: MB 160-238092/3
Matrix: Water
Analysis Batch: 238092

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 13:56	1
Chloride	ND		0.20		mg/L			02/26/16 13:56	1
Sulfate	ND		0.50		mg/L			02/26/16 13:56	1

Lab Sample ID: LCS 160-238092/4
Matrix: Water
Analysis Batch: 238092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	1.00		mg/L		100	90 - 110
Chloride	2.00	1.87		mg/L		93	90 - 110
Sulfate	8.00	7.54		mg/L		94	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 580-57054-1 MS
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	30		40.0	68.5		mg/L		96	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 580-57054-1 DU
Matrix: Water
Analysis Batch: 238018

Client Sample ID: 0216-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride - DL	30			29.9		mg/L				0.6	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-210979/20-A
Matrix: Water
Analysis Batch: 211093

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/08/16 12:35	02/09/16 16:41	1
Iron	ND		0.30		mg/L		02/08/16 12:35	02/09/16 16:41	1
Magnesium	ND		1.1		mg/L		02/08/16 12:35	02/09/16 16:41	1
Manganese	ND		0.020		mg/L		02/08/16 12:35	02/09/16 16:41	1
Potassium	ND		3.3		mg/L		02/08/16 12:35	02/09/16 16:41	1
Sodium	ND		2.0		mg/L		02/08/16 12:35	02/09/16 16:41	1

Lab Sample ID: LCS 580-210979/21-A
Matrix: Water
Analysis Batch: 211093

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium			20.0	20.1		mg/L		101	80 - 120		
Iron			22.0	21.7		mg/L		99	80 - 120		
Magnesium			20.0	19.9		mg/L		100	80 - 120		
Manganese			1.00	1.01		mg/L		101	80 - 120		
Potassium			20.0	19.9		mg/L		100	80 - 120		
Sodium			20.0	20.0		mg/L		100	80 - 120		

Lab Sample ID: LCSD 580-210979/22-A
Matrix: Water
Analysis Batch: 211093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	20.5		mg/L		102	80 - 120	2	20
Iron			22.0	22.1		mg/L		101	80 - 120	2	20
Magnesium			20.0	20.1		mg/L		101	80 - 120	1	20
Manganese			1.00	1.03		mg/L		103	80 - 120	2	20
Potassium			20.0	20.3		mg/L		102	80 - 120	2	20
Sodium			20.0	20.2		mg/L		101	80 - 120	1	20

Lab Sample ID: MB 580-211046/20-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/10/16 14:08	02/11/16 12:18	1
Iron	ND		0.30		mg/L		02/10/16 14:08	02/11/16 12:18	1
Magnesium	ND		1.1		mg/L		02/10/16 14:08	02/11/16 12:18	1
Manganese	ND		0.020		mg/L		02/10/16 14:08	02/11/16 12:18	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 580-211046/20-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		3.3		mg/L		02/10/16 14:08	02/11/16 12:18	1
Sodium	ND		2.0		mg/L		02/10/16 14:08	02/11/16 12:18	1

Lab Sample ID: LCS 580-211046/21-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	21.9		mg/L		109	80 - 120
Iron	22.0	24.2		mg/L		110	80 - 120
Magnesium	20.0	22.2		mg/L		111	80 - 120
Manganese	1.00	1.12		mg/L		112	80 - 120
Potassium	20.0	20.9		mg/L		105	80 - 120
Sodium	20.0	21.1		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-211046/22-A
Matrix: Water
Analysis Batch: 211162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.6		mg/L		98	80 - 120	11	20
Iron	22.0	21.6		mg/L		98	80 - 120	12	20
Magnesium	20.0	19.7		mg/L		99	80 - 120	12	20
Manganese	1.00	0.998		mg/L		100	80 - 120	11	20
Potassium	20.0	18.5		mg/L		93	80 - 120	12	20
Sodium	20.0	19.1		mg/L		96	80 - 120	10	20

Lab Sample ID: 580-57054-1 MS
Matrix: Water
Analysis Batch: 211093

Client Sample ID: 0216-11
Prep Type: Dissolved
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	39		20.0	59.5		mg/L		100	75 - 125
Iron	ND		22.0	22.3		mg/L		100	75 - 125
Magnesium	28		20.0	47.2		mg/L		99	75 - 125
Manganese	0.074		1.00	1.09		mg/L		101	75 - 125
Potassium	11		20.0	31.5		mg/L		103	75 - 125
Sodium	40		20.0	60.2		mg/L		100	75 - 125

Lab Sample ID: 580-57054-1 MSD
Matrix: Water
Analysis Batch: 211093

Client Sample ID: 0216-11
Prep Type: Dissolved
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	39		20.0	59.7		mg/L		101	75 - 125	0	20
Iron	ND		22.0	22.5		mg/L		101	75 - 125	1	20
Magnesium	28		20.0	47.3		mg/L		99	75 - 125	0	20
Manganese	0.074		1.00	1.10		mg/L		103	75 - 125	1	20
Potassium	11		20.0	31.7		mg/L		104	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-57054-1 MSD
Matrix: Water
Analysis Batch: 211093

Client Sample ID: 0216-11
Prep Type: Dissolved
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	40		20.0	60.0		mg/L		100	75 - 125	0	20

Lab Sample ID: 580-57054-1 DU
Matrix: Water
Analysis Batch: 211093

Client Sample ID: 0216-11
Prep Type: Dissolved
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	39		37.7		mg/L		5	20
Iron	ND		0.305		mg/L		NC	20
Magnesium	28		26.1		mg/L		5	20
Manganese	0.074		0.0710		mg/L		3	20
Potassium	11		10.5		mg/L		4	20
Sodium	40		38.3		mg/L		5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-210979/20-A
Matrix: Water
Analysis Batch: 212089

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Arsenic	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 14:51	1
Barium	ND		0.0012		mg/L		02/08/16 12:35	02/26/16 14:51	1
Beryllium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Cadmium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Chromium	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Cobalt	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Copper	ND		0.0020		mg/L		02/08/16 12:35	02/26/16 14:51	1
Lead	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Nickel	ND		0.0030		mg/L		02/08/16 12:35	02/26/16 14:51	1
Selenium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 14:51	1
Silver	ND		0.00040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Thallium	ND		0.0010		mg/L		02/08/16 12:35	02/26/16 14:51	1
Vanadium	ND		0.0040		mg/L		02/08/16 12:35	02/26/16 14:51	1
Zinc	ND		0.0070		mg/L		02/08/16 12:35	02/26/16 14:51	1

Lab Sample ID: LCS 580-210979/21-A
Matrix: Water
Analysis Batch: 212089

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.13		mg/L		104	80 - 120
Arsenic	4.00	4.05		mg/L		101	80 - 120
Barium	4.00	4.25		mg/L		106	80 - 120
Beryllium	0.100	0.0917		mg/L		92	80 - 120
Cadmium	0.100	0.0960		mg/L		96	80 - 120
Chromium	0.400	0.397		mg/L		99	80 - 120
Cobalt	1.00	1.00		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-210979/21-A
Matrix: Water
Analysis Batch: 212089

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.500	0.522		mg/L		104	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Nickel	1.00	1.00		mg/L		100	80 - 120
Selenium	4.00	4.09		mg/L		102	80 - 120
Silver	0.600	0.625		mg/L		104	80 - 120
Thallium	4.00	4.11		mg/L		103	80 - 120
Vanadium	1.00	1.01		mg/L		101	80 - 120
Zinc	4.00	4.02		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-210979/22-A
Matrix: Water
Analysis Batch: 212089

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.12		mg/L		104	80 - 120	0	20
Arsenic	4.00	4.03		mg/L		101	80 - 120	1	20
Barium	4.00	4.21		mg/L		105	80 - 120	1	20
Beryllium	0.100	0.0974		mg/L		97	80 - 120	6	20
Cadmium	0.100	0.0987		mg/L		99	80 - 120	3	20
Chromium	0.400	0.399		mg/L		100	80 - 120	1	20
Cobalt	1.00	0.998		mg/L		100	80 - 120	0	20
Copper	0.500	0.513		mg/L		103	80 - 120	2	20
Lead	1.00	1.02		mg/L		102	80 - 120	1	20
Nickel	1.00	0.998		mg/L		100	80 - 120	0	20
Selenium	4.00	4.11		mg/L		103	80 - 120	1	20
Silver	0.600	0.623		mg/L		104	80 - 120	0	20
Thallium	4.00	3.95		mg/L		99	80 - 120	4	20
Vanadium	1.00	1.01		mg/L		101	80 - 120	0	20
Zinc	4.00	3.97		mg/L		99	80 - 120	1	20

Lab Sample ID: 580-57054-1 MS
Matrix: Water
Analysis Batch: 212089

Client Sample ID: 0216-11
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.19		mg/L		106	80 - 120
Arsenic	0.015		4.00	4.16		mg/L		104	80 - 120
Barium	0.036		4.00	4.37		mg/L		108	80 - 120
Beryllium	ND		0.100	0.0966		mg/L		97	80 - 120
Cadmium	ND		0.100	0.0975		mg/L		97	80 - 120
Chromium	0.00049		0.400	0.413		mg/L		103	80 - 120
Cobalt	ND		1.00	1.03		mg/L		103	80 - 120
Copper	ND		0.500	0.528		mg/L		105	80 - 120
Lead	ND		1.00	1.05		mg/L		105	80 - 120
Nickel	ND		1.00	1.03		mg/L		103	80 - 120
Selenium	ND		4.00	4.19		mg/L		105	80 - 120
Silver	ND		0.600	0.634		mg/L		106	80 - 120
Thallium	ND		4.00	4.10		mg/L		102	80 - 120
Vanadium	ND		1.00	1.03		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-57054-1 MS
Matrix: Water
Analysis Batch: 212089

Client Sample ID: 0216-11
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	ND		4.00	4.19		mg/L		105	80 - 120

Lab Sample ID: 580-57054-1 MSD
Matrix: Water
Analysis Batch: 212089

Client Sample ID: 0216-11
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.22		mg/L		107	80 - 120	1	20
Arsenic	0.015		4.00	4.23		mg/L		105	80 - 120	2	20
Barium	0.036		4.00	4.41		mg/L		109	80 - 120	1	20
Beryllium	ND		0.100	0.0979		mg/L		98	80 - 120	1	20
Cadmium	ND		0.100	0.0989		mg/L		99	80 - 120	1	20
Chromium	0.00049		0.400	0.423		mg/L		106	80 - 120	2	20
Cobalt	ND		1.00	1.05		mg/L		105	80 - 120	2	20
Copper	ND		0.500	0.527		mg/L		105	80 - 120	0	20
Lead	ND		1.00	1.07		mg/L		107	80 - 120	2	20
Nickel	ND		1.00	1.03		mg/L		103	80 - 120	0	20
Selenium	ND		4.00	4.25		mg/L		106	80 - 120	1	20
Silver	ND		0.600	0.636		mg/L		106	80 - 120	0	20
Thallium	ND		4.00	4.12		mg/L		103	80 - 120	1	20
Vanadium	ND		1.00	1.05		mg/L		105	80 - 120	1	20
Zinc	ND		4.00	4.15		mg/L		104	80 - 120	1	20

Lab Sample ID: 580-57054-1 DU
Matrix: Water
Analysis Batch: 212089

Client Sample ID: 0216-11
Prep Type: Total Recoverable
Prep Batch: 210979

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.015		0.0149		mg/L		0.9	20
Barium	0.036		0.0361		mg/L		0.1	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.00049		0.000646	F5	mg/L		28	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-211046/20-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Arsenic	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 03:26	1
Barium	ND		0.0012		mg/L		02/10/16 14:08	02/12/16 03:26	1
Beryllium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Cadmium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Chromium	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Cobalt	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Copper	ND		0.0020		mg/L		02/10/16 14:08	02/12/16 03:26	1
Lead	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Nickel	ND		0.0030		mg/L		02/10/16 14:08	02/12/16 03:26	1
Selenium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 03:26	1
Silver	ND		0.00040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Thallium	ND		0.0010		mg/L		02/10/16 14:08	02/12/16 03:26	1
Vanadium	ND		0.0040		mg/L		02/10/16 14:08	02/12/16 03:26	1
Zinc	ND		0.0070		mg/L		02/10/16 14:08	02/12/16 03:26	1

Lab Sample ID: LCS 580-211046/21-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.10		mg/L		103	80 - 120
Arsenic	4.00	4.04		mg/L		101	80 - 120
Barium	4.00	4.20		mg/L		105	80 - 120
Beryllium	0.100	0.0986		mg/L		99	80 - 120
Cadmium	0.100	0.0907		mg/L		91	80 - 120
Chromium	0.400	0.394		mg/L		98	80 - 120
Cobalt	1.00	0.998		mg/L		100	80 - 120
Copper	0.500	0.512		mg/L		102	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	4.00	4.21		mg/L		105	80 - 120
Silver	0.600	0.615		mg/L		102	80 - 120
Thallium	4.00	4.04		mg/L		101	80 - 120
Vanadium	1.00	0.979		mg/L		98	80 - 120
Zinc	4.00	4.04		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-211046/22-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.12		mg/L		104	80 - 120	1	20
Arsenic	4.00	4.08		mg/L		102	80 - 120	1	20
Barium	4.00	4.22		mg/L		105	80 - 120	0	20
Beryllium	0.100	0.0962		mg/L		96	80 - 120	2	20
Cadmium	0.100	0.0959		mg/L		96	80 - 120	6	20
Chromium	0.400	0.399		mg/L		100	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-211046/22-A
Matrix: Water
Analysis Batch: 211174

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211046

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	1.01		mg/L		101	80 - 120	1	20
Copper			0.500	0.521		mg/L		104	80 - 120	2	20
Lead			1.00	1.00		mg/L		100	80 - 120	0	20
Nickel			1.00	1.04		mg/L		104	80 - 120	3	20
Selenium			4.00	4.26		mg/L		106	80 - 120	1	20
Silver			0.600	0.619		mg/L		103	80 - 120	1	20
Thallium			4.00	4.05		mg/L		101	80 - 120	0	20
Vanadium			1.00	0.988		mg/L		99	80 - 120	1	20
Zinc			4.00	4.12		mg/L		103	80 - 120	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-211336/1-A
Matrix: Water
Analysis Batch: 211358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1

Lab Sample ID: LCS 580-211336/2-A
Matrix: Water
Analysis Batch: 211358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia			2.00	2.05		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 320-102067/14
Matrix: Water
Analysis Batch: 102067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 13:20	1

Lab Sample ID: LCS 320-102067/15
Matrix: Water
Analysis Batch: 102067

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			1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 580-57054-2 MS
Matrix: Water
Analysis Batch: 102067

Client Sample ID: 0216-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	8.4		10.0	18.2		mg/L		98	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-57054-2 MSD — **Client Sample ID: 0216-12**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 102067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	8.4		10.0	18.4		mg/L		100	90 - 110	1	20

Lab Sample ID: MB 320-102068/15 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 102068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:21	1

Lab Sample ID: LCS 320-102068/16 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 102068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.993		mg/L		99	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-211235/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	102		mg/L		102	85 - 115

Lab Sample ID: 580-57054-1 DU — **Client Sample ID: 0216-11**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211235

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	230		236		mg/L		2	17
Bicarbonate Alkalinity as CaCO3	230		236		mg/L		2	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-211101/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211101

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			02/10/16 22:00	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-211101/2
Matrix: Water
Analysis Batch: 211101

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	1000	962		mg/L		96	80 - 120

Lab Sample ID: MB 580-211419/1
Matrix: Water
Analysis Batch: 211419

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			02/16/16 19:20	1

Lab Sample ID: LCS 580-211419/2
Matrix: Water
Analysis Batch: 211419

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	1000	998		mg/L		100	80 - 120

Lab Sample ID: 580-57054-8 DU
Matrix: Water
Analysis Batch: 211419

Client Sample ID: 0216-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	960	H	953		mg/L		1	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-211316/3-A
Matrix: Water
Analysis Batch: 211317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211316

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		02/15/16 14:38	02/15/16 14:38	1

Lab Sample ID: LCS 580-211316/4-A
Matrix: Water
Analysis Batch: 211317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	75.2		mg/L		100	80 - 120

Lab Sample ID: MB 580-211385/3-A
Matrix: Water
Analysis Batch: 211406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211385

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 580-211385/4-A
Matrix: Water
Analysis Batch: 211406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	75.5		mg/L		101	80 - 120

Lab Sample ID: 580-57054-5 MS
Matrix: Water
Analysis Batch: 211406

Client Sample ID: 0216-15
Prep Type: Total/NA
Prep Batch: 211385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		25.0	24.6		mg/L		98	75 - 125

Lab Sample ID: 580-57054-5 DU
Matrix: Water
Analysis Batch: 211406

Client Sample ID: 0216-15
Prep Type: Total/NA
Prep Batch: 211385

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-211341/1
Matrix: Water
Analysis Batch: 211341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/15/16 13:07	1

Lab Sample ID: LCS 580-211341/2
Matrix: Water
Analysis Batch: 211341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.4		mg/L		104	85 - 115

Lab Sample ID: MB 580-211425/1
Matrix: Water
Analysis Batch: 211425

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/16/16 16:56	1

Lab Sample ID: LCS 580-211425/2
Matrix: Water
Analysis Batch: 211425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.5		mg/L		105	85 - 115

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-11

Date Collected: 02/02/16 10:44
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 14:14	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/25/16 22:54	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/25/16 23:07	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 17:18	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 15:10	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102067	03/01/16 13:24	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Client Sample ID: 0216-12

Date Collected: 02/02/16 10:20
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 14:45	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 00:41	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 00:55	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 17:25	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 15:46	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		10	102067	03/01/16 14:13	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-13

Date Collected: 02/02/16 11:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 15:13	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 01:08	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 01:22	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 17:31	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 15:51	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102067	03/01/16 13:32	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Client Sample ID: 0216-14

Date Collected: 02/02/16 11:23
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 15:40	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 01:35	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 01:48	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 17:38	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 15:55	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		2	102067	03/01/16 14:19	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211317	02/15/16 14:38	RSB	TAL SEA
Total/NA	Prep	SM 5220			211316	02/15/16 14:38	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-15

Date Collected: 02/02/16 13:48
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 16:07	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 02:02	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 02:15	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 17:44	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 16:00	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102067	03/01/16 13:36	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Client Sample ID: 0216-16

Date Collected: 02/02/16 12:50
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 16:34	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 02:55	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 03:09	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 18:00	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 16:04	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		25	102068	03/01/16 16:01	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-17

Date Collected: 02/02/16 15:10
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 17:01	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 03:22	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 03:36	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 18:07	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 16:09	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		5	102067	03/01/16 14:23	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Client Sample ID: 0216-18

Date Collected: 02/02/16 16:00
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 17:28	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 03:49	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 04:03	JCB	TAL SL
Dissolved	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211093	02/09/16 18:14	SPP	TAL SEA
Total Recoverable	Prep	3005A			210979	02/08/16 12:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	212089	02/26/16 16:14	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102067	03/01/16 14:25	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211419	02/16/16 19:20	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211341	02/15/16 13:07	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Client Sample ID: 0216-24

Date Collected: 02/02/16 16:55
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 17:55	TL1	TAL SEA
Total/NA	Prep	8151A			210972	02/09/16 11:03	J1J	TAL SEA
Total/NA	Analysis	8151A		1	211160	02/11/16 21:08	ERB	TAL SEA
Total/NA	Analysis	300.0		1	238018	02/26/16 04:16	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238018	02/26/16 04:29	JCB	TAL SL
Total/NA	Analysis	300.0	RADL	50	238092	02/27/16 00:54	JCB	TAL SL
Dissolved	Prep	3005A			211046	02/10/16 14:08	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211162	02/11/16 12:55	HJM	TAL SEA
Total Recoverable	Prep	3005A			211046	02/10/16 14:08	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211174	02/12/16 05:20	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		10	102067	03/01/16 14:27	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211419	02/16/16 19:20	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211425	02/16/16 16:56	RSB	TAL SEA

Client Sample ID: 0216-95

Date Collected: 02/02/16 14:06
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 18:22	TL1	TAL SEA
Total/NA	Analysis	8260B	DL	5	211788	02/23/16 14:20	TL1	TAL SEA

Client Sample ID: 0216-96

Date Collected: 02/02/16 15:01
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 18:49	TL1	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 02/02/16 00:01
Date Received: 02/03/16 10:55

Lab Sample ID: 580-57054-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211259	02/15/16 11:59	TL1	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Alkalinity
SM 5310B		Water	Total Organic Carbon

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Acrylonitrile
8260B		Water	Benzene
8260B		Water	Bromochloromethane
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Ethylbenzene
8260B		Water	m,p-Xylene
8260B		Water	Methyl iodide
8260B		Water	Methylene Chloride
8260B		Water	o-Xylene
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	trans-1,4-Dichloro-2-butene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl acetate
8260B		Water	Vinyl chloride
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Laboratory: TestAmerica Sacramento

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		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-17
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-17
Virginia	NELAP Secondary AB	3	460278	03-14-16 *
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-Q	01-29-16 *

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Laboratory: TestAmerica St. Louis (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
California	ELAP	9	2886	03-31-16 *
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-10-16 *
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-16 *
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-57054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-57054-1	0216-11	Water	02/02/16 10:44	02/03/16 10:55
580-57054-2	0216-12	Water	02/02/16 10:20	02/03/16 10:55
580-57054-3	0216-13	Water	02/02/16 11:55	02/03/16 10:55
580-57054-4	0216-14	Water	02/02/16 11:23	02/03/16 10:55
580-57054-5	0216-15	Water	02/02/16 13:48	02/03/16 10:55
580-57054-6	0216-16	Water	02/02/16 12:50	02/03/16 10:55
580-57054-7	0216-17	Water	02/02/16 15:10	02/03/16 10:55
580-57054-8	0216-18	Water	02/02/16 16:00	02/03/16 10:55
580-57054-9	0216-24	Water	02/02/16 16:55	02/03/16 10:55
580-57054-10	0216-95	Water	02/02/16 14:06	02/03/16 10:55
580-57054-11	0216-96	Water	02/02/16 15:01	02/03/16 10:55
580-57054-12	Trip Blank	Water	02/02/16 00:01	02/03/16 10:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Sam Graber	2/3/16	26626
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2405 140th Ave NE, Suite 107	(612) 940-2980	57054	
City / State / Zip Code	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam Graber	Sarah Murphy	
Project Name and Location (State)	**Billing Contact**		
Island County, WA			
Contract/Purchase Order/Quote No.			
1044			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alks + HCO3 + CO3	Total Metals	Dissolved Metals	Ammonia	TOC	VOCs	TDS	Cl, F, SO4	Nitrate	Herbicides 8151
-1 0216-11	2/2/16	~~Start~~ 0940		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X	
0216-12		1020																					
-3 0216-13		1155																					
0216-14		1123																					
0216-15		1348																					
0216-16		1250																					
-7 0216-17		1510																					
0216-18		1600																					
-9 0216-24		1655					5																X
0216-95		1406					0	0	0	3													
-11 0216-96		1501					0	0	0	3													
Trip blank		-									5												

Special Instructions/ Conditions of Receipt

Please hold Trip blanks

580-57054 Chain of Custody

Page 66 of 73

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: _____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Graber	2/3/16	840	Francisco Lara, Jr	2/3/16	1055
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

3/3/2016

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TB Hz Cooler: Cor: 0.9 Unc: 0.7
Cooler Dsc: Ly Blueberry@Lab 1315
Wet/Packs: Packing Bubbly
w/o

TB Hz Cooler: Cor: 1.0 Unc: 0.8
Cooler Dsc: Ly Blueberry@Lab 1315
Wet/Packs: Packing Bubbly
w/o

TB Hz Cooler: Cor: 1.4 Unc: 1.7
Cooler Dsc: Ly Blueberry@Lab 1315
Wet/Packs: Packing Bubbly
w/o

TB Hz Cooler: Cor: 1.6 Unc: 1.4
Cooler Dsc: Ly Blueberry@Lab 1315
Wet/Packs: Packing Bubbly
w/o

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Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-36187.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 580-57054-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/15/2016			Preservation Codes:
City: Earth City	TAT Requested (days):			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)
State, Zip: MO, 63045	PO #:			Other:
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:				
Project Name: Coupeville Solid Waste Facility GW	Project #: 58009563			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	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)	300_ORGFM_28D/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-11 (580-57054-1)	2/2/16	10:44 Pacific		Water			X	1	
0216-12 (580-57054-2)	2/2/16	10:20 Pacific		Water			X	1	
0216-13 (580-57054-3)	2/2/16	11:55 Pacific		Water			X	1	
0216-14 (580-57054-4)	2/2/16	11:23 Pacific		Water			X	1	
0216-15 (580-57054-5)	2/2/16	13:48 Pacific		Water			X	1	
0216-16 (580-57054-6)	2/2/16	12:50 Pacific		Water			X	1	
0216-17 (580-57054-7)	2/2/16	15:10 Pacific		Water			X	1	
0216-18 (580-57054-8)	2/2/16	16:00 Pacific		Water			X	1	
0216-24 (580-57054-9)	2/2/16	16:55 Pacific		Water			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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
Brandon L. Hall Brandon Hall	2/2/16	~~TA~~ TA		2/2/16 0915	TA-SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
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Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-36183 1
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah murphy@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 580-57054-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 2/15/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Coupeville Solid Waste Facility GW	Project #: 58009563			
Site	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
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 - Client ID (Lab ID)	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 Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-11 (580-57054-1)	2/2/16	10 44 Pacific		Water			X	1	
0216-12 (580-57054-2)	2/2/16	10:20 Pacific		Water			X	1	
0216-13 (580-57054-3)	2/2/16	11.55 Pacific		Water			X	1	
0216-14 (580-57054-4)	2/2/16	11 23 Pacific		Water			X	1	
0216-15 (580-57054-5)	2/2/16	13 48 Pacific		Water			X	1	
0216-16 (580-57054-6)	2/2/16	12 50 Pacific		Water			X	1	
0216-17 (580-57054-7)	2/2/16	15 10 Pacific		Water			X	1	
0216-18 (580-57054-8)	2/2/16	16 00 Pacific		Water			X	1	
0216-24 (580-57054-9)	2/2/16	16 55 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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
Brandon D. Gall	2/24/16	SEA TA			
Relinquished by	Date/Time	Company	Received by	Date/Time	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:

3/3/2016

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
		Murphy, Sarah A		580-36299 1
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah murphy@testamericainc com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 580-57054-1

Address	Due Date Requested	City	TAT Requested (days)	State, Zip	PO #	Phone	WO #	Email	Project Name	Project #	Site	SSOW#
880 Riverside Parkway,	2/15/2016	West Sacramento		CA, 95605		916-373-5600(Tel) 916-372-1059(Fax)			Coupeville Solid Waste Facility GW	58009563		

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 - Client ID (Lab ID)	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)	353.2/ Nitrate Nitrite Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
0216-11 (580-57054-1)	2/2/16	10 44 Pacific		Water		X	1	
0216-12 (580-57054-2)	2/2/16	10 20 Pacific		Water		X	1	
0216-13 (580-57054-3)	2/2/16	11 55 Pacific		Water		X	1	
0216-14 (580-57054-4)	2/2/16	11 23 Pacific		Water		X	2	
0216-15 (580-57054-5)	2/2/16	13 48 Pacific		Water		X	1	
0216-16 (580-57054-6)	2/2/16	12 50 Pacific		Water		X	1	
0216-17 (580-57054-7)	2/2/16	15 10 Pacific		Water		X	1	
0216-18 (580-57054-8)	2/2/16	16 00 Pacific		Water		X	1	

Possible Hazard Identification
Unconfirmed

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
Tom Blankenship	2/24/16	TA-Sea		2/25/16 1015	
Relinquished by	Date/Time	Company	Received by	Date/Time	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
		0.7

3/3/2016

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57054-1

Login Number: 57054
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57054-1

Login Number: 57054
List Number: 2
Creator: Sadler, Jeremy

List Source: TestAmerica Sacramento
List Creation: 02/23/16 11:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57054-1

Login Number: 57054
List Number: 3
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis
List Creation: 02/25/16 09:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-57130-1
Client Project/Site: Island County, WA

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
3/3/2016 3:32:38 PM

Sarah Murphy, Project Manager I
(253)922-2310
sarah.murphy@testamericainc.com

LINKS

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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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Job ID: 580-57130-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 2/5/2016 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.4º C, 1.5º C, 1.8º C, 2.3º C and 5.9º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 580-211349 recovered above the upper control limit for trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, Carbon tetrachloride, Styrene, trans-1,3-Dichloropropene, o-Xylene, 1,1,2,2-Tetrachloroethane and 1,2-Dichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0216-19 (580-57130-1), 0216-21 (580-57130-2), 0216-98 (580-57130-14), 0216-100 (580-57130-15), Trip Blank (580-57130-16) and (CCVIS 580-211349/2).

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 580-211444 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0216-23 (580-57130-3), 0216-25 (580-57130-4), 0216-26 (580-57130-5), 0216-27 (580-57130-6), 0216-28 (580-57130-7), 0216-29 (580-57130-8), 0216-31 (580-57130-9), 0216-33 (580-57130-10), 0216-35 (580-57130-11), 0216-36 (580-57130-12), 0216-37 (580-57130-13) and (CCVIS 580-211444/2).

Method(s) 8260B: The laboratory control sample (LCS) for batch analytical batch 580-211349 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, cis-1,3-Dichloropropene, Chlorodibromomethane, 4-Methyl-2-pentanone and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-211444 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, trans-1,4-Dichloro-2-butene (LCS only), 1,1,2,2-Tetrachloroethane (LCS only) and Chloromethane (LCS only). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for batch analytical batch 580-211349 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, Chlorodibromomethane, 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-211349 recovered outside control limits for the following analytes: Bromomethane.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-211444 recovered outside control limits for the following analytes: Chloroethane, 1,2-Dichloroethane and Trichlorofluoromethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 300.0: The following samples in Anion batch 160-238092 were diluted to bring the concentrations of target analytes within the calibration range: 0216-19 (580-57130-1), 0216-21 (580-57130-2), 0216-23 (580-57130-3), 0216-25 (580-57130-4), 0216-26 (580-57130-5), 0216-27 (580-57130-6), 0216-28 (580-57130-7), 0216-29 (580-57130-8), 0216-31 (580-57130-9), 0216-33 (580-57130-10), 0216-35 (580-57130-11), 0216-36 (580-57130-12) and 0216-37 (580-57130-13). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following matrix spike (MS) in Anion batch 160-238092 recovered outside control limits for Fluoride at 112% recovery: (580-57130-A-1 MS). Sample matrix interference is suspected, because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: Due to the high concentration of nitrite plus nitrate in the parent sample, the matrix spike / matrix spike duplicate

Job ID: 580-57130-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

(MS/MSD) for analytical batch 320-102068 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-19
Date Collected: 02/03/16 09:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 16:04	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/16/16 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 16:04	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/16/16 16:04	1
1,1-Dichloroethane	ND		0.20		ug/L			02/16/16 16:04	1
1,1-Dichloroethene	ND		0.10		ug/L			02/16/16 16:04	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/16/16 16:04	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/16/16 16:04	1
1,2-Dibromoethane	ND		0.10		ug/L			02/16/16 16:04	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/16/16 16:04	1
1,2-Dichloroethane	ND		0.20		ug/L			02/16/16 16:04	1
1,2-Dichloropropane	ND		0.20		ug/L			02/16/16 16:04	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/16/16 16:04	1
2-Butanone	ND		15		ug/L			02/16/16 16:04	1
2-Hexanone	ND		2.0		ug/L			02/16/16 16:04	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/16/16 16:04	1
Acetone	ND		2.0		ug/L			02/16/16 16:04	1
Acrylonitrile	ND		5.0		ug/L			02/16/16 16:04	1
Benzene	ND		0.20		ug/L			02/16/16 16:04	1
Bromochloromethane	ND		0.20		ug/L			02/16/16 16:04	1
Bromodichloromethane	ND		0.20		ug/L			02/16/16 16:04	1
Bromoform	ND		0.50		ug/L			02/16/16 16:04	1
Bromomethane	ND	*	1.0		ug/L			02/16/16 16:04	1
Carbon disulfide	ND		0.20		ug/L			02/16/16 16:04	1
Carbon tetrachloride	ND		0.20		ug/L			02/16/16 16:04	1
Chlorobenzene	ND		0.20		ug/L			02/16/16 16:04	1
Chloroethane	ND		0.50		ug/L			02/16/16 16:04	1
Chloroform	ND		0.20		ug/L			02/16/16 16:04	1
Chloromethane	ND		0.30		ug/L			02/16/16 16:04	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 16:04	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/16/16 16:04	1
Dibromochloromethane	ND	*	0.20		ug/L			02/16/16 16:04	1
Dibromomethane	ND		0.20		ug/L			02/16/16 16:04	1
Ethylbenzene	ND		0.20		ug/L			02/16/16 16:04	1
m,p-Xylene	ND		0.50		ug/L			02/16/16 16:04	1
Methyl iodide	ND		0.50		ug/L			02/16/16 16:04	1
Methylene Chloride	ND		0.50		ug/L			02/16/16 16:04	1
o-Xylene	ND		0.50		ug/L			02/16/16 16:04	1
Styrene	ND		0.50		ug/L			02/16/16 16:04	1
Tetrachloroethene	ND		0.50		ug/L			02/16/16 16:04	1
Toluene	ND		0.20		ug/L			02/16/16 16:04	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 16:04	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/16/16 16:04	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/16/16 16:04	1
Trichloroethene	ND		0.20		ug/L			02/16/16 16:04	1
Trichlorofluoromethane	ND		0.50		ug/L			02/16/16 16:04	1
Vinyl acetate	ND		1.0		ug/L			02/16/16 16:04	1
Vinyl chloride	ND		0.020		ug/L			02/16/16 16:04	1

Client Sample ID: 0216-19
Date Collected: 02/03/16 09:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 128*		*02/16/16 16:04*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/16/16 16:04*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*02/16/16 16:04*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/16/16 16:04*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*02/16/16 16:04*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.10		mg/L			02/26/16 15:43	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63**		4.0		mg/L			02/26/16 15:57	20
Sulfate	**37**		10		mg/L			02/26/16 15:57	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**72**		1.1		mg/L		02/11/16 10:47	02/17/16 17:40	1
Iron	ND		0.30		mg/L		02/11/16 10:47	02/17/16 17:40	1
Magnesium	**47**		1.1		mg/L		02/11/16 10:47	02/17/16 17:40	1
Manganese	ND		0.020		mg/L		02/11/16 10:47	02/17/16 17:40	1
Potassium	**5.6**		3.3		mg/L		02/11/16 10:47	02/17/16 17:40	1
Sodium	**31**		2.0		mg/L		02/11/16 10:47	02/17/16 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Arsenic	**0.0061**		0.0010		mg/L		02/11/16 10:47	02/17/16 09:57	1
Barium	**0.024**		0.0012		mg/L		02/11/16 10:47	02/17/16 09:57	1
Beryllium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Cadmium	**0.00041**		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Chromium	**0.0085**		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Cobalt	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Copper	ND		0.0020		mg/L		02/11/16 10:47	02/17/16 09:57	1
Lead	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Nickel	ND		0.0030		mg/L		02/11/16 10:47	02/17/16 09:57	1
Selenium	**0.0017**		0.0010		mg/L		02/11/16 10:47	02/17/16 09:57	1
Silver	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Thallium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 09:57	1
Vanadium	**0.0054**		0.0040		mg/L		02/11/16 10:47	02/17/16 09:57	1
Zinc	ND		0.0070		mg/L		02/11/16 10:47	02/17/16 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	**1.1**		0.050		mg/L			03/01/16 15:25	1
Total Organic Carbon	**2.2**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-19
Date Collected: 02/03/16 09:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**500**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-21
Date Collected: 02/03/16 09:55
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 16:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/16/16 16:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 16:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/16/16 16:31	1
1,1-Dichloroethane	ND		0.20		ug/L			02/16/16 16:31	1
1,1-Dichloroethene	ND		0.10		ug/L			02/16/16 16:31	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/16/16 16:31	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/16/16 16:31	1
1,2-Dibromoethane	ND		0.10		ug/L			02/16/16 16:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/16/16 16:31	1
1,2-Dichloroethane	ND		0.20		ug/L			02/16/16 16:31	1
1,2-Dichloropropane	ND		0.20		ug/L			02/16/16 16:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/16/16 16:31	1
2-Butanone	ND		15		ug/L			02/16/16 16:31	1
2-Hexanone	ND		2.0		ug/L			02/16/16 16:31	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/16/16 16:31	1
Acetone	ND		2.0		ug/L			02/16/16 16:31	1
Acrylonitrile	ND		5.0		ug/L			02/16/16 16:31	1
Benzene	ND		0.20		ug/L			02/16/16 16:31	1
Bromochloromethane	ND		0.20		ug/L			02/16/16 16:31	1
Bromodichloromethane	ND		0.20		ug/L			02/16/16 16:31	1
Bromoform	ND		0.50		ug/L			02/16/16 16:31	1
Bromomethane	ND	*	1.0		ug/L			02/16/16 16:31	1
Carbon disulfide	ND		0.20		ug/L			02/16/16 16:31	1
Carbon tetrachloride	ND		0.20		ug/L			02/16/16 16:31	1
Chlorobenzene	ND		0.20		ug/L			02/16/16 16:31	1
Chloroethane	ND		0.50		ug/L			02/16/16 16:31	1
Chloroform	ND		0.20		ug/L			02/16/16 16:31	1
Chloromethane	ND		0.30		ug/L			02/16/16 16:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 16:31	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/16/16 16:31	1
Dibromochloromethane	ND	*	0.20		ug/L			02/16/16 16:31	1
Dibromomethane	ND		0.20		ug/L			02/16/16 16:31	1
Ethylbenzene	ND		0.20		ug/L			02/16/16 16:31	1
m,p-Xylene	ND		0.50		ug/L			02/16/16 16:31	1
Methyl iodide	ND		0.50		ug/L			02/16/16 16:31	1
Methylene Chloride	ND		0.50		ug/L			02/16/16 16:31	1
o-Xylene	ND		0.50		ug/L			02/16/16 16:31	1
Styrene	ND		0.50		ug/L			02/16/16 16:31	1
Tetrachloroethene	ND		0.50		ug/L			02/16/16 16:31	1
Toluene	ND		0.20		ug/L			02/16/16 16:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 16:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/16/16 16:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/16/16 16:31	1
Trichloroethene	ND		0.20		ug/L			02/16/16 16:31	1
Trichlorofluoromethane	ND		0.50		ug/L			02/16/16 16:31	1
Vinyl acetate	ND		1.0		ug/L			02/16/16 16:31	1
Vinyl chloride	ND		0.020		ug/L			02/16/16 16:31	1

Client Sample ID: 0216-21
Date Collected: 02/03/16 09:55
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*		*02/16/16 16:31*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/16/16 16:31*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/16/16 16:31*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/16/16 16:31*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 127*		*02/16/16 16:31*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 17:04	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68**		4.0		mg/L			02/26/16 17:17	20
Sulfate	**25**		10		mg/L			02/26/16 17:17	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**68**		1.1		mg/L		02/11/16 10:47	02/17/16 17:44	1
Iron	ND		0.30		mg/L		02/11/16 10:47	02/17/16 17:44	1
Magnesium	**60**		1.1		mg/L		02/11/16 10:47	02/17/16 17:44	1
Manganese	**0.20**		0.020		mg/L		02/11/16 10:47	02/17/16 17:44	1
Potassium	**7.6**		3.3		mg/L		02/11/16 10:47	02/17/16 17:44	1
Sodium	**34**		2.0		mg/L		02/11/16 10:47	02/17/16 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Arsenic	**0.012**		0.0010		mg/L		02/11/16 10:47	02/17/16 10:01	1
Barium	**0.050**		0.0012		mg/L		02/11/16 10:47	02/17/16 10:01	1
Beryllium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Cadmium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Chromium	**0.00042**		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Cobalt	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Copper	ND		0.0020		mg/L		02/11/16 10:47	02/17/16 10:01	1
Lead	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Nickel	ND		0.0030		mg/L		02/11/16 10:47	02/17/16 10:01	1
Selenium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:01	1
Silver	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Thallium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:01	1
Vanadium	ND		0.0040		mg/L		02/11/16 10:47	02/17/16 10:01	1
Zinc	ND		0.0070		mg/L		02/11/16 10:47	02/17/16 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:31	1
Total Organic Carbon	**2.2**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-21
Date Collected: 02/03/16 09:55
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**520**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-23
Date Collected: 02/03/16 11:48
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 14:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 14:07	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 14:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 14:07	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 14:07	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 14:07	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 14:07	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 14:07	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 14:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 14:07	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 14:07	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 14:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 14:07	1
2-Butanone	ND		15		ug/L			02/17/16 14:07	1
2-Hexanone	ND		2.0		ug/L			02/17/16 14:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 14:07	1
Acetone	ND		2.0		ug/L			02/17/16 14:07	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 14:07	1
Benzene	ND		0.20		ug/L			02/17/16 14:07	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 14:07	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 14:07	1
Bromoform	ND		0.50		ug/L			02/17/16 14:07	1
Bromomethane	ND		1.0		ug/L			02/17/16 14:07	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 14:07	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 14:07	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 14:07	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 14:07	1
Chloroform	ND		0.20		ug/L			02/17/16 14:07	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 14:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 14:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 14:07	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 14:07	1
Dibromomethane	ND		0.20		ug/L			02/17/16 14:07	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 14:07	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 14:07	1
Methyl iodide	ND		0.50		ug/L			02/17/16 14:07	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 14:07	1
o-Xylene	ND		0.50		ug/L			02/17/16 14:07	1
Styrene	ND		0.50		ug/L			02/17/16 14:07	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 14:07	1
Toluene	ND		0.20		ug/L			02/17/16 14:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 14:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 14:07	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 14:07	1
Trichloroethene	ND		0.20		ug/L			02/17/16 14:07	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 14:07	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 14:07	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 14:07	1

Client Sample ID: 0216-23
Date Collected: 02/03/16 11:48
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 128		02/17/16 14:07	1
4-Bromofluorobenzene (Surr)	94		75 - 120		02/17/16 14:07	1
Dibromofluoromethane (Surr)	88		85 - 115		02/17/16 14:07	1
Toluene-d8 (Surr)	118		75 - 125		02/17/16 14:07	1
Trifluorotoluene (Surr)	107		80 - 127		02/17/16 14:07	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 17:31	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		4.0		mg/L			02/26/16 17:44	20
Sulfate	**27**		10		mg/L			02/26/16 17:44	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		02/11/16 10:47	02/17/16 17:47	1
Iron	ND		0.30		mg/L		02/11/16 10:47	02/17/16 17:47	1
Magnesium	**51**		1.1		mg/L		02/11/16 10:47	02/17/16 17:47	1
Manganese	**0.20**		0.020		mg/L		02/11/16 10:47	02/17/16 17:47	1
Potassium	**6.1**		3.3		mg/L		02/11/16 10:47	02/17/16 17:47	1
Sodium	**32**		2.0		mg/L		02/11/16 10:47	02/17/16 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Arsenic	**0.0067**		0.0010		mg/L		02/11/16 10:47	02/17/16 10:06	1
Barium	**0.037**		0.0012		mg/L		02/11/16 10:47	02/17/16 10:06	1
Beryllium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Cadmium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Chromium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Cobalt	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Copper	ND		0.0020		mg/L		02/11/16 10:47	02/17/16 10:06	1
Lead	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Nickel	ND		0.0030		mg/L		02/11/16 10:47	02/17/16 10:06	1
Selenium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:06	1
Silver	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Thallium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:06	1
Vanadium	ND		0.0040		mg/L		02/11/16 10:47	02/17/16 10:06	1
Zinc	ND		0.0070		mg/L		02/11/16 10:47	02/17/16 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:33	1
Total Organic Carbon	**2.5**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-23
Date Collected: 02/03/16 11:48
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**510**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-25
Date Collected: 02/03/16 12:56
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 14:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 14:34	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 14:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 14:34	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 14:34	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 14:34	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 14:34	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 14:34	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 14:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 14:34	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 14:34	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 14:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 14:34	1
2-Butanone	ND		15		ug/L			02/17/16 14:34	1
2-Hexanone	ND		2.0		ug/L			02/17/16 14:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 14:34	1
Acetone	ND		2.0		ug/L			02/17/16 14:34	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 14:34	1
Benzene	ND		0.20		ug/L			02/17/16 14:34	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 14:34	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 14:34	1
Bromoform	ND		0.50		ug/L			02/17/16 14:34	1
Bromomethane	ND		1.0		ug/L			02/17/16 14:34	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 14:34	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 14:34	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 14:34	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 14:34	1
Chloroform	ND		0.20		ug/L			02/17/16 14:34	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 14:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 14:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 14:34	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 14:34	1
Dibromomethane	ND		0.20		ug/L			02/17/16 14:34	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 14:34	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 14:34	1
Methyl iodide	ND		0.50		ug/L			02/17/16 14:34	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 14:34	1
o-Xylene	ND		0.50		ug/L			02/17/16 14:34	1
Styrene	ND		0.50		ug/L			02/17/16 14:34	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 14:34	1
Toluene	ND		0.20		ug/L			02/17/16 14:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 14:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 14:34	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 14:34	1
Trichloroethene	ND		0.20		ug/L			02/17/16 14:34	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 14:34	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 14:34	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 14:34	1

Client Sample ID: 0216-25
Date Collected: 02/03/16 12:56
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 128*		*02/17/16 14:34*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*02/17/16 14:34*	*1*
Dibromofluoromethane (Surr)	*87*		*85 - 115*		*02/17/16 14:34*	*1*
Toluene-d8 (Surr)	*108*		*75 - 125*		*02/17/16 14:34*	*1*
Trifluorotoluene (Surr)	*113*		*80 - 127*		*02/17/16 14:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 18:24	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75**		4.0		mg/L			02/26/16 18:38	20
Sulfate	**28**		10		mg/L			02/26/16 18:38	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		02/11/16 10:47	02/17/16 17:50	1
Iron	ND		0.30		mg/L		02/11/16 10:47	02/17/16 17:50	1
Magnesium	**54**		1.1		mg/L		02/11/16 10:47	02/17/16 17:50	1
Manganese	**0.17**		0.020		mg/L		02/11/16 10:47	02/17/16 17:50	1
Potassium	**7.1**		3.3		mg/L		02/11/16 10:47	02/17/16 17:50	1
Sodium	**36**		2.0		mg/L		02/11/16 10:47	02/17/16 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Arsenic	**0.0089**		0.0010		mg/L		02/11/16 10:47	02/17/16 10:10	1
Barium	**0.046**		0.0012		mg/L		02/11/16 10:47	02/17/16 10:10	1
Beryllium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Cadmium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Chromium	**0.00065**		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Cobalt	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Copper	ND		0.0020		mg/L		02/11/16 10:47	02/17/16 10:10	1
Lead	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Nickel	ND		0.0030		mg/L		02/11/16 10:47	02/17/16 10:10	1
Selenium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:10	1
Silver	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Thallium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:10	1
Vanadium	ND		0.0040		mg/L		02/11/16 10:47	02/17/16 10:10	1
Zinc	ND		0.0070		mg/L		02/11/16 10:47	02/17/16 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:35	1
Total Organic Carbon	**2.7**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-25
Date Collected: 02/03/16 12:56
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**520**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-26
Date Collected: 02/03/16 14:12
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 15:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 15:01	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 15:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 15:01	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 15:01	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 15:01	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 15:01	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 15:01	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 15:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 15:01	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 15:01	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 15:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 15:01	1
2-Butanone	ND		15		ug/L			02/17/16 15:01	1
2-Hexanone	ND		2.0		ug/L			02/17/16 15:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 15:01	1
Acetone	ND		2.0		ug/L			02/17/16 15:01	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 15:01	1
Benzene	ND		0.20		ug/L			02/17/16 15:01	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 15:01	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 15:01	1
Bromoform	ND		0.50		ug/L			02/17/16 15:01	1
Bromomethane	ND		1.0		ug/L			02/17/16 15:01	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 15:01	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 15:01	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 15:01	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 15:01	1
Chloroform	ND		0.20		ug/L			02/17/16 15:01	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 15:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 15:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 15:01	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 15:01	1
Dibromomethane	ND		0.20		ug/L			02/17/16 15:01	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 15:01	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 15:01	1
Methyl iodide	ND		0.50		ug/L			02/17/16 15:01	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 15:01	1
o-Xylene	ND		0.50		ug/L			02/17/16 15:01	1
Styrene	ND		0.50		ug/L			02/17/16 15:01	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 15:01	1
Toluene	ND		0.20		ug/L			02/17/16 15:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 15:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 15:01	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 15:01	1
Trichloroethene	ND		0.20		ug/L			02/17/16 15:01	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 15:01	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 15:01	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 15:01	1

Client Sample ID: 0216-26
Date Collected: 02/03/16 14:12
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 128*		*02/17/16 15:01*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/17/16 15:01*	*1*
Dibromofluoromethane (Surr)	*88*		*85 - 115*		*02/17/16 15:01*	*1*
Toluene-d8 (Surr)	*108*		*75 - 125*		*02/17/16 15:01*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 127*		*02/17/16 15:01*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 18:51	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47**		4.0		mg/L			02/26/16 19:05	20
Sulfate	**51**		10		mg/L			02/26/16 19:05	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**99**		1.1		mg/L		02/11/16 15:20	02/12/16 15:14	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:14	1
Magnesium	**56**		1.1		mg/L		02/11/16 15:20	02/12/16 15:14	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 15:14	1
Potassium	**4.5**		3.3		mg/L		02/11/16 15:20	02/12/16 15:14	1
Sodium	**37**		2.0		mg/L		02/11/16 15:20	02/12/16 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Arsenic	**0.0026**		0.0010		mg/L		02/11/16 10:47	02/17/16 10:15	1
Barium	**0.028**		0.0012		mg/L		02/11/16 10:47	02/17/16 10:15	1
Beryllium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Cadmium	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Chromium	**0.0021**		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Cobalt	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Copper	ND		0.0020		mg/L		02/11/16 10:47	02/17/16 10:15	1
Lead	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Nickel	ND		0.0030		mg/L		02/11/16 10:47	02/17/16 10:15	1
Selenium	**0.0012**		0.0010		mg/L		02/11/16 10:47	02/17/16 10:15	1
Silver	ND		0.00040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Thallium	ND		0.0010		mg/L		02/11/16 10:47	02/17/16 10:15	1
Vanadium	**0.0044**		0.0040		mg/L		02/11/16 10:47	02/17/16 10:15	1
Zinc	ND		0.0070		mg/L		02/11/16 10:47	02/17/16 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	**3.3**		0.10		mg/L			03/01/16 16:22	2
Total Organic Carbon	**2.3**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-26
Date Collected: 02/03/16 14:12
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**520**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-27
Date Collected: 02/03/16 14:31
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 15:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 15:28	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 15:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 15:28	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 15:28	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 15:28	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 15:28	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 15:28	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 15:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 15:28	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 15:28	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 15:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 15:28	1
2-Butanone	ND		15		ug/L			02/17/16 15:28	1
2-Hexanone	ND		2.0		ug/L			02/17/16 15:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 15:28	1
Acetone	ND		2.0		ug/L			02/17/16 15:28	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 15:28	1
Benzene	ND		0.20		ug/L			02/17/16 15:28	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 15:28	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 15:28	1
Bromoform	ND		0.50		ug/L			02/17/16 15:28	1
Bromomethane	ND		1.0		ug/L			02/17/16 15:28	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 15:28	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 15:28	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 15:28	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 15:28	1
Chloroform	ND		0.20		ug/L			02/17/16 15:28	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 15:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 15:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 15:28	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 15:28	1
Dibromomethane	ND		0.20		ug/L			02/17/16 15:28	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 15:28	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 15:28	1
Methyl iodide	ND		0.50		ug/L			02/17/16 15:28	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 15:28	1
o-Xylene	ND		0.50		ug/L			02/17/16 15:28	1
Styrene	ND		0.50		ug/L			02/17/16 15:28	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 15:28	1
Toluene	ND		0.20		ug/L			02/17/16 15:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 15:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 15:28	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 15:28	1
Trichloroethene	ND		0.20		ug/L			02/17/16 15:28	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 15:28	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 15:28	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 15:28	1

Client Sample ID: 0216-27
Date Collected: 02/03/16 14:31
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*02/17/16 15:28*	*1*
4-Bromofluorobenzene (Surr)	*84*		*75 - 120*		*02/17/16 15:28*	*1*
Dibromofluoromethane (Surr)	*90*		*85 - 115*		*02/17/16 15:28*	*1*
Toluene-d8 (Surr)	*108*		*75 - 125*		*02/17/16 15:28*	*1*
Trifluorotoluene (Surr)	*109*		*80 - 127*		*02/17/16 15:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 19:18	1
Sulfate	**16**		0.50		mg/L			02/26/16 19:18	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35**		4.0		mg/L			02/26/16 19:31	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**72**		1.1		mg/L		02/11/16 15:20	02/12/16 15:18	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:18	1
Magnesium	**46**		1.1		mg/L		02/11/16 15:20	02/12/16 15:18	1
Manganese	**0.29**		0.020		mg/L		02/11/16 15:20	02/12/16 15:18	1
Potassium	**6.7**		3.3		mg/L		02/11/16 15:20	02/12/16 15:18	1
Sodium	**27**		2.0		mg/L		02/11/16 15:20	02/12/16 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Arsenic	**0.0070**		0.0010		mg/L		02/11/16 15:20	02/15/16 20:48	1
Barium	**0.031**		0.0012		mg/L		02/11/16 15:20	02/15/16 20:48	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Chromium	**0.00072**		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 20:48	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Nickel	ND		0.0030		mg/L		02/11/16 15:20	02/15/16 20:48	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 20:48	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 20:48	1
Vanadium	ND		0.0040		mg/L		02/11/16 15:20	02/15/16 20:48	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 20:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:39	1
Total Organic Carbon	**1.4**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-27
Date Collected: 02/03/16 14:31
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-6
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**430**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client Sample ID: 0216-28
Date Collected: 02/03/16 16:05
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 15:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 15:55	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 15:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 15:55	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 15:55	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 15:55	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 15:55	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 15:55	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 15:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 15:55	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 15:55	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 15:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 15:55	1
2-Butanone	ND		15		ug/L			02/17/16 15:55	1
2-Hexanone	ND		2.0		ug/L			02/17/16 15:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 15:55	1
Acetone	ND		2.0		ug/L			02/17/16 15:55	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 15:55	1
Benzene	ND		0.20		ug/L			02/17/16 15:55	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 15:55	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 15:55	1
Bromoform	ND		0.50		ug/L			02/17/16 15:55	1
Bromomethane	ND		1.0		ug/L			02/17/16 15:55	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 15:55	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 15:55	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 15:55	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 15:55	1
Chloroform	ND		0.20		ug/L			02/17/16 15:55	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 15:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 15:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 15:55	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 15:55	1
Dibromomethane	ND		0.20		ug/L			02/17/16 15:55	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 15:55	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 15:55	1
Methyl iodide	ND		0.50		ug/L			02/17/16 15:55	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 15:55	1
o-Xylene	ND		0.50		ug/L			02/17/16 15:55	1
Styrene	ND		0.50		ug/L			02/17/16 15:55	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 15:55	1
Toluene	ND		0.20		ug/L			02/17/16 15:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 15:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 15:55	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 15:55	1
Trichloroethene	ND		0.20		ug/L			02/17/16 15:55	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 15:55	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 15:55	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 15:55	1

Client Sample ID: 0216-28
Date Collected: 02/03/16 16:05
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*02/17/16 15:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/17/16 15:55*	*1*
Dibromofluoromethane (Surr)	*91*		*85 - 115*		*02/17/16 15:55*	*1*
Toluene-d8 (Surr)	*108*		*75 - 125*		*02/17/16 15:55*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 127*		*02/17/16 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 19:45	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**54**		10		mg/L			02/26/16 19:58	20

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		20		mg/L			02/26/16 20:12	100

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		02/11/16 15:20	02/12/16 15:21	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:21	1
Magnesium	**97**		1.1		mg/L		02/11/16 15:20	02/12/16 15:21	1
Manganese	**0.24**		0.020		mg/L		02/11/16 15:20	02/12/16 15:21	1
Potassium	**10**		3.3		mg/L		02/11/16 15:20	02/12/16 15:21	1
Sodium	**45**		2.0		mg/L		02/11/16 15:20	02/12/16 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Arsenic	**0.0041**		0.0010		mg/L		02/11/16 15:20	02/15/16 20:53	1
Barium	**0.092**		0.0012		mg/L		02/11/16 15:20	02/15/16 20:53	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Chromium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 20:53	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Nickel	**0.0087**		0.0030		mg/L		02/11/16 15:20	02/15/16 20:53	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 20:53	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 20:53	1
Vanadium	ND		0.0040		mg/L		02/11/16 15:20	02/15/16 20:53	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 20:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:47	1
Total Organic Carbon	**3.2**		1.0		mg/L			02/16/16 10:31	1

Client Sample Results

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-28
Date Collected: 02/03/16 16:05
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-7
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**570**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**570**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**810**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-29
Date Collected: 02/03/16 15:30
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 16:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 16:22	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 16:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 16:22	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 16:22	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 16:22	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 16:22	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 16:22	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 16:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 16:22	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 16:22	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 16:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 16:22	1
2-Butanone	ND		15		ug/L			02/17/16 16:22	1
2-Hexanone	ND		2.0		ug/L			02/17/16 16:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 16:22	1
Acetone	ND		2.0		ug/L			02/17/16 16:22	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 16:22	1
Benzene	ND		0.20		ug/L			02/17/16 16:22	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 16:22	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 16:22	1
Bromoform	ND		0.50		ug/L			02/17/16 16:22	1
Bromomethane	ND		1.0		ug/L			02/17/16 16:22	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 16:22	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 16:22	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 16:22	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 16:22	1
Chloroform	ND		0.20		ug/L			02/17/16 16:22	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 16:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 16:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 16:22	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 16:22	1
Dibromomethane	ND		0.20		ug/L			02/17/16 16:22	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 16:22	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 16:22	1
Methyl iodide	ND		0.50		ug/L			02/17/16 16:22	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 16:22	1
o-Xylene	ND		0.50		ug/L			02/17/16 16:22	1
Styrene	ND		0.50		ug/L			02/17/16 16:22	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 16:22	1
Toluene	ND		0.20		ug/L			02/17/16 16:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 16:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 16:22	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 16:22	1
Trichloroethene	ND		0.20		ug/L			02/17/16 16:22	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 16:22	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 16:22	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 16:22	1

Client Sample ID: 0216-29
Date Collected: 02/03/16 15:30
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*02/17/16 16:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/17/16 16:22*	*1*
Dibromofluoromethane (Surr)	*91*		*85 - 115*		*02/17/16 16:22*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/17/16 16:22*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 127*		*02/17/16 16:22*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 20:52	1
Sulfate	**14**		0.50		mg/L			02/26/16 20:52	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.6**		4.0		mg/L			02/26/16 21:05	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**35**		1.1		mg/L		02/11/16 15:20	02/12/16 15:24	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:24	1
Magnesium	**34**		1.1		mg/L		02/11/16 15:20	02/12/16 15:24	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 15:24	1
Potassium	ND		3.3		mg/L		02/11/16 15:20	02/12/16 15:24	1
Sodium	**12**		2.0		mg/L		02/11/16 15:20	02/12/16 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Arsenic	**0.0022**		0.0010		mg/L		02/11/16 15:20	02/15/16 20:57	1
Barium	**0.014**		0.0012		mg/L		02/11/16 15:20	02/15/16 20:57	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Chromium	**0.0026**		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 20:57	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Nickel	**0.0067**		0.0030		mg/L		02/11/16 15:20	02/15/16 20:57	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 20:57	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 20:57	1
Vanadium	**0.0048**		0.0040		mg/L		02/11/16 15:20	02/15/16 20:57	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 20:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	**3.1**		0.10		mg/L			03/01/16 16:24	2
Total Organic Carbon	**2.6**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**180**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**180**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-29
Date Collected: 02/03/16 15:30
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**260**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-31
Date Collected: 02/04/16 08:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 16:49	1
1,1,1-Trichloroethane	**0.63**		0.20		ug/L			02/17/16 16:49	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 16:49	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 16:49	1
1,1-Dichloroethane	**0.80**		0.20		ug/L			02/17/16 16:49	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 16:49	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 16:49	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 16:49	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 16:49	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 16:49	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 16:49	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 16:49	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 16:49	1
2-Butanone	ND		15		ug/L			02/17/16 16:49	1
2-Hexanone	ND		2.0		ug/L			02/17/16 16:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 16:49	1
Acetone	ND		2.0		ug/L			02/17/16 16:49	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 16:49	1
Benzene	ND		0.20		ug/L			02/17/16 16:49	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 16:49	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 16:49	1
Bromoform	ND		0.50		ug/L			02/17/16 16:49	1
Bromomethane	ND		1.0		ug/L			02/17/16 16:49	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 16:49	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 16:49	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 16:49	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 16:49	1
Chloroform	ND		0.20		ug/L			02/17/16 16:49	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 16:49	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 16:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 16:49	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 16:49	1
Dibromomethane	ND		0.20		ug/L			02/17/16 16:49	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 16:49	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 16:49	1
Methyl iodide	ND		0.50		ug/L			02/17/16 16:49	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 16:49	1
o-Xylene	ND		0.50		ug/L			02/17/16 16:49	1
Styrene	ND		0.50		ug/L			02/17/16 16:49	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 16:49	1
Toluene	ND		0.20		ug/L			02/17/16 16:49	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 16:49	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 16:49	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 16:49	1
Trichloroethene	ND		0.20		ug/L			02/17/16 16:49	1
Trichlorofluoromethane	**2.0**	*	0.50		ug/L			02/17/16 16:49	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 16:49	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 16:49	1

Client Sample ID: 0216-31
Date Collected: 02/04/16 08:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 128*		*02/17/16 16:49*	*1*
4-Bromofluorobenzene (Surr)	*80*		*75 - 120*		*02/17/16 16:49*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*02/17/16 16:49*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*02/17/16 16:49*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 127*		*02/17/16 16:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 21:19	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34**		4.0		mg/L			02/26/16 21:32	20
Sulfate	**100**		10		mg/L			02/26/16 21:32	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190**		1.1		mg/L		02/11/16 15:20	02/12/16 15:27	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:27	1
Magnesium	**100**		1.1		mg/L		02/11/16 15:20	02/12/16 15:27	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 15:27	1
Potassium	**9.4**		3.3		mg/L		02/11/16 15:20	02/12/16 15:27	1
Sodium	**32**		2.0		mg/L		02/11/16 15:20	02/12/16 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Arsenic	**0.0019**		0.0010		mg/L		02/11/16 15:20	02/15/16 21:02	1
Barium	**0.061**		0.0012		mg/L		02/11/16 15:20	02/15/16 21:02	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Chromium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 21:02	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Nickel	**0.0054**		0.0030		mg/L		02/11/16 15:20	02/15/16 21:02	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:02	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:02	1
Vanadium	**0.0054**		0.0040		mg/L		02/11/16 15:20	02/15/16 21:02	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	**5.4**		0.25		mg/L			03/01/16 16:26	5
Total Organic Carbon	**2.8**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**730**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**730**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-31
Date Collected: 02/04/16 08:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**960**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-33
Date Collected: 02/04/16 10:33
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 17:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 17:16	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 17:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 17:16	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 17:16	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 17:16	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 17:16	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 17:16	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 17:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 17:16	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 17:16	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 17:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 17:16	1
2-Butanone	ND		15		ug/L			02/17/16 17:16	1
2-Hexanone	ND		2.0		ug/L			02/17/16 17:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 17:16	1
Acetone	ND		2.0		ug/L			02/17/16 17:16	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 17:16	1
Benzene	ND		0.20		ug/L			02/17/16 17:16	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 17:16	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 17:16	1
Bromoform	ND		0.50		ug/L			02/17/16 17:16	1
Bromomethane	ND		1.0		ug/L			02/17/16 17:16	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 17:16	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 17:16	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 17:16	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 17:16	1
Chloroform	ND		0.20		ug/L			02/17/16 17:16	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 17:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 17:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 17:16	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 17:16	1
Dibromomethane	ND		0.20		ug/L			02/17/16 17:16	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 17:16	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 17:16	1
Methyl iodide	ND		0.50		ug/L			02/17/16 17:16	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 17:16	1
o-Xylene	ND		0.50		ug/L			02/17/16 17:16	1
Styrene	ND		0.50		ug/L			02/17/16 17:16	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 17:16	1
Toluene	ND		0.20		ug/L			02/17/16 17:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 17:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 17:16	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 17:16	1
Trichloroethene	ND		0.20		ug/L			02/17/16 17:16	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 17:16	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 17:16	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 17:16	1

Client Sample ID: 0216-33
Date Collected: 02/04/16 10:33
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*		*02/17/16 17:16*	*1*
4-Bromofluorobenzene (Surr)	*92*		*75 - 120*		*02/17/16 17:16*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/17/16 17:16*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/17/16 17:16*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*02/17/16 17:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 21:59	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71**		4.0		mg/L			02/26/16 22:12	20
Sulfate	**61**		10		mg/L			02/26/16 22:12	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		02/11/16 15:20	02/12/16 15:31	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:31	1
Magnesium	**82**		1.1		mg/L		02/11/16 15:20	02/12/16 15:31	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 15:31	1
Potassium	**8.8**		3.3		mg/L		02/11/16 15:20	02/12/16 15:31	1
Sodium	**44**		2.0		mg/L		02/11/16 15:20	02/12/16 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Arsenic	**0.0037**		0.0010		mg/L		02/11/16 15:20	02/15/16 21:07	1
Barium	**0.032**		0.0012		mg/L		02/11/16 15:20	02/15/16 21:07	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Chromium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 21:07	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Nickel	**0.0048**		0.0030		mg/L		02/11/16 15:20	02/15/16 21:07	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:07	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:07	1
Vanadium	ND		0.0040		mg/L		02/11/16 15:20	02/15/16 21:07	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 21:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	**2.3**		0.10		mg/L			03/01/16 16:28	2
Total Organic Carbon	**2.5**		1.0		mg/L			02/16/16 10:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**470**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-33
Date Collected: 02/04/16 10:33
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**690**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-35
Date Collected: 02/04/16 10:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 17:43	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 17:43	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 17:43	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 17:43	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 17:43	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 17:43	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 17:43	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 17:43	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 17:43	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 17:43	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 17:43	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 17:43	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 17:43	1
2-Butanone	ND		15		ug/L			02/17/16 17:43	1
2-Hexanone	ND		2.0		ug/L			02/17/16 17:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 17:43	1
Acetone	ND		2.0		ug/L			02/17/16 17:43	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 17:43	1
Benzene	ND		0.20		ug/L			02/17/16 17:43	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 17:43	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 17:43	1
Bromoform	ND		0.50		ug/L			02/17/16 17:43	1
Bromomethane	ND		1.0		ug/L			02/17/16 17:43	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 17:43	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 17:43	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 17:43	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 17:43	1
Chloroform	ND		0.20		ug/L			02/17/16 17:43	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 17:43	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 17:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 17:43	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 17:43	1
Dibromomethane	ND		0.20		ug/L			02/17/16 17:43	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 17:43	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 17:43	1
Methyl iodide	ND		0.50		ug/L			02/17/16 17:43	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 17:43	1
o-Xylene	ND		0.50		ug/L			02/17/16 17:43	1
Styrene	ND		0.50		ug/L			02/17/16 17:43	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 17:43	1
Toluene	ND		0.20		ug/L			02/17/16 17:43	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 17:43	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 17:43	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 17:43	1
Trichloroethene	ND		0.20		ug/L			02/17/16 17:43	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 17:43	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 17:43	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 17:43	1

Client Sample ID: 0216-35
Date Collected: 02/04/16 10:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 128*		*02/17/16 17:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 120*		*02/17/16 17:43*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*02/17/16 17:43*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*02/17/16 17:43*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*02/17/16 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 23:06	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71**		4.0		mg/L			02/26/16 23:20	20
Sulfate	**61**		10		mg/L			02/26/16 23:20	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		02/11/16 15:20	02/12/16 15:34	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:34	1
Magnesium	**78**		1.1		mg/L		02/11/16 15:20	02/12/16 15:34	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 15:34	1
Potassium	**8.4**		3.3		mg/L		02/11/16 15:20	02/12/16 15:34	1
Sodium	**41**		2.0		mg/L		02/11/16 15:20	02/12/16 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Arsenic	**0.0036**		0.0010		mg/L		02/11/16 15:20	02/15/16 21:11	1
Barium	**0.031**		0.0012		mg/L		02/11/16 15:20	02/15/16 21:11	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Chromium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 21:11	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Nickel	**0.0047**		0.0030		mg/L		02/11/16 15:20	02/15/16 21:11	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:11	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:11	1
Vanadium	ND		0.0040		mg/L		02/11/16 15:20	02/15/16 21:11	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 21:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	**2.4**		0.10		mg/L			03/01/16 16:30	2
Total Organic Carbon	**2.2**		1.0		mg/L			02/16/16 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**480**		5.0		mg/L			02/12/16 20:01	1
Bicarbonate Alkalinity as CaCO3	**480**		5.0		mg/L			02/12/16 20:01	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-35
Date Collected: 02/04/16 10:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:01	1
Total Dissolved Solids	**690**		10		mg/L			02/10/16 21:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-36
Date Collected: 02/04/16 11:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 18:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 18:10	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 18:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 18:10	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 18:10	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 18:10	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 18:10	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 18:10	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 18:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 18:10	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 18:10	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 18:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 18:10	1
2-Butanone	ND		15		ug/L			02/17/16 18:10	1
2-Hexanone	ND		2.0		ug/L			02/17/16 18:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 18:10	1
Acetone	ND		2.0		ug/L			02/17/16 18:10	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 18:10	1
Benzene	ND		0.20		ug/L			02/17/16 18:10	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 18:10	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 18:10	1
Bromoform	ND		0.50		ug/L			02/17/16 18:10	1
Bromomethane	ND		1.0		ug/L			02/17/16 18:10	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 18:10	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 18:10	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 18:10	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 18:10	1
Chloroform	ND		0.20		ug/L			02/17/16 18:10	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 18:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 18:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 18:10	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 18:10	1
Dibromomethane	ND		0.20		ug/L			02/17/16 18:10	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 18:10	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 18:10	1
Methyl iodide	ND		0.50		ug/L			02/17/16 18:10	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 18:10	1
o-Xylene	ND		0.50		ug/L			02/17/16 18:10	1
Styrene	ND		0.50		ug/L			02/17/16 18:10	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 18:10	1
Toluene	ND		0.20		ug/L			02/17/16 18:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 18:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 18:10	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 18:10	1
Trichloroethene	ND		0.20		ug/L			02/17/16 18:10	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 18:10	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 18:10	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 18:10	1

Client Sample ID: 0216-36
Date Collected: 02/04/16 11:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 128*		*02/17/16 18:10*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*		*02/17/16 18:10*	*1*
Dibromofluoromethane (Surr)	*86*		*85 - 115*		*02/17/16 18:10*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*02/17/16 18:10*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 127*		*02/17/16 18:10*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 23:46	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43**		4.0		mg/L			02/27/16 00:00	20
Sulfate	**33**		10		mg/L			02/27/16 00:00	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65**		1.1		mg/L		02/11/16 15:20	02/12/16 15:37	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 15:37	1
Magnesium	**42**		1.1		mg/L		02/11/16 15:20	02/12/16 15:37	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 15:37	1
Potassium	**6.4**		3.3		mg/L		02/11/16 15:20	02/12/16 15:37	1
Sodium	**26**		2.0		mg/L		02/11/16 15:20	02/12/16 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Arsenic	**0.0036**		0.0010		mg/L		02/11/16 15:20	02/15/16 21:16	1
Barium	**0.031**		0.0012		mg/L		02/11/16 15:20	02/15/16 21:16	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Chromium	**0.00041**		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 21:16	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Nickel	ND		0.0030		mg/L		02/11/16 15:20	02/15/16 21:16	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:16	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 21:16	1
Vanadium	ND		0.0040		mg/L		02/11/16 15:20	02/15/16 21:16	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 21:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:57	1
Total Organic Carbon	**1.6**		1.0		mg/L			02/16/16 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			02/12/16 20:03	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			02/12/16 20:03	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:03	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-36
Date Collected: 02/04/16 11:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-12
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:03	1
Total Dissolved Solids	**420**		10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client Sample ID: 0216-37
Date Collected: 02/04/16 13:10
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 18:37	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 18:37	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/17/16 18:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 18:37	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 18:37	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 18:37	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/17/16 18:37	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/17/16 18:37	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 18:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 18:37	1
1,2-Dichloroethane	ND	*	0.20		ug/L			02/17/16 18:37	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 18:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 18:37	1
2-Butanone	ND		15		ug/L			02/17/16 18:37	1
2-Hexanone	ND		2.0		ug/L			02/17/16 18:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 18:37	1
Acetone	ND		2.0		ug/L			02/17/16 18:37	1
Acrylonitrile	ND		5.0		ug/L			02/17/16 18:37	1
Benzene	ND		0.20		ug/L			02/17/16 18:37	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 18:37	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 18:37	1
Bromoform	ND		0.50		ug/L			02/17/16 18:37	1
Bromomethane	ND		1.0		ug/L			02/17/16 18:37	1
Carbon disulfide	**0.20**		0.20		ug/L			02/17/16 18:37	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 18:37	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 18:37	1
Chloroethane	ND	*	0.50		ug/L			02/17/16 18:37	1
Chloroform	ND		0.20		ug/L			02/17/16 18:37	1
Chloromethane	ND	*	0.30		ug/L			02/17/16 18:37	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 18:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 18:37	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 18:37	1
Dibromomethane	ND		0.20		ug/L			02/17/16 18:37	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 18:37	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 18:37	1
Methyl iodide	ND		0.50		ug/L			02/17/16 18:37	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 18:37	1
o-Xylene	ND		0.50		ug/L			02/17/16 18:37	1
Styrene	ND		0.50		ug/L			02/17/16 18:37	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 18:37	1
Toluene	ND		0.20		ug/L			02/17/16 18:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 18:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 18:37	1
trans-1,4-Dichloro-2-butene	ND	*	2.0		ug/L			02/17/16 18:37	1
Trichloroethene	ND		0.20		ug/L			02/17/16 18:37	1
Trichlorofluoromethane	ND	*	0.50		ug/L			02/17/16 18:37	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 18:37	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 18:37	1

Client Sample ID: 0216-37
Date Collected: 02/04/16 13:10
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 128*		*02/17/16 18:37*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/17/16 18:37*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*02/17/16 18:37*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/17/16 18:37*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 127*		*02/17/16 18:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/27/16 00:13	1
Sulfate	**8.8**		0.50		mg/L			02/27/16 00:13	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36**		4.0		mg/L			02/27/16 00:27	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**42**		1.1		mg/L		02/15/16 15:20	02/16/16 13:35	1
Iron	ND		0.30		mg/L		02/15/16 15:20	02/16/16 13:35	1
Magnesium	**31**		1.1		mg/L		02/15/16 15:20	02/16/16 13:35	1
Manganese	**0.081**		0.020		mg/L		02/15/16 15:20	02/16/16 13:35	1
Potassium	**11**		3.3		mg/L		02/15/16 15:20	02/16/16 13:35	1
Sodium	**20**		2.0		mg/L		02/15/16 15:20	02/16/16 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Arsenic	**0.058**		0.0010		mg/L		02/15/16 15:20	02/16/16 19:11	1
Barium	**0.040**		0.0012		mg/L		02/15/16 15:20	02/16/16 19:11	1
Beryllium	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Cadmium	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Chromium	**0.0021**		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Cobalt	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Copper	**0.0042**		0.0020		mg/L		02/15/16 15:20	02/16/16 19:11	1
Lead	**0.0034**		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Nickel	ND		0.0030		mg/L		02/15/16 15:20	02/16/16 19:11	1
Selenium	ND		0.0010		mg/L		02/15/16 15:20	02/16/16 19:11	1
Silver	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Thallium	ND		0.0010		mg/L		02/15/16 15:20	02/16/16 19:11	1
Vanadium	ND		0.0040		mg/L		02/15/16 15:20	02/16/16 19:11	1
Zinc	**2.6**		0.0070		mg/L		02/15/16 15:20	02/16/16 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:59	1
Total Organic Carbon	**1.2**		1.0		mg/L			02/16/16 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			02/12/16 20:03	1
Bicarbonate Alkalinity as CaCO3	**180**		5.0		mg/L			02/12/16 20:03	1
Carbonate Alkalinity as CaCO3	**45**		5.0		mg/L			02/12/16 20:03	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-37
Date Collected: 02/04/16 13:10
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/12/16 20:03	1
Total Dissolved Solids	**300**		10		mg/L			02/10/16 22:00	1
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-98
Date Collected: 02/03/16 12:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 17:26	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/16/16 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 17:26	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/16/16 17:26	1
1,1-Dichloroethane	ND		0.20		ug/L			02/16/16 17:26	1
1,1-Dichloroethene	ND		0.10		ug/L			02/16/16 17:26	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/16/16 17:26	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/16/16 17:26	1
1,2-Dibromoethane	ND		0.10		ug/L			02/16/16 17:26	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/16/16 17:26	1
1,2-Dichloroethane	ND		0.20		ug/L			02/16/16 17:26	1
1,2-Dichloropropane	ND		0.20		ug/L			02/16/16 17:26	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/16/16 17:26	1
2-Butanone	ND		15		ug/L			02/16/16 17:26	1
2-Hexanone	ND		2.0		ug/L			02/16/16 17:26	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/16/16 17:26	1
Acetone	ND		2.0		ug/L			02/16/16 17:26	1
Acrylonitrile	ND		5.0		ug/L			02/16/16 17:26	1
Benzene	ND		0.20		ug/L			02/16/16 17:26	1
Bromochloromethane	ND		0.20		ug/L			02/16/16 17:26	1
Bromodichloromethane	ND		0.20		ug/L			02/16/16 17:26	1
Bromoform	ND		0.50		ug/L			02/16/16 17:26	1
Bromomethane	ND	*	1.0		ug/L			02/16/16 17:26	1
Carbon disulfide	ND		0.20		ug/L			02/16/16 17:26	1
Carbon tetrachloride	ND		0.20		ug/L			02/16/16 17:26	1
Chlorobenzene	ND		0.20		ug/L			02/16/16 17:26	1
Chloroethane	ND		0.50		ug/L			02/16/16 17:26	1
Chloroform	ND		0.20		ug/L			02/16/16 17:26	1
Chloromethane	ND		0.30		ug/L			02/16/16 17:26	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 17:26	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/16/16 17:26	1
Dibromochloromethane	ND	*	0.20		ug/L			02/16/16 17:26	1
Dibromomethane	ND		0.20		ug/L			02/16/16 17:26	1
Ethylbenzene	ND		0.20		ug/L			02/16/16 17:26	1
m,p-Xylene	ND		0.50		ug/L			02/16/16 17:26	1
Methyl iodide	ND		0.50		ug/L			02/16/16 17:26	1
Methylene Chloride	ND		0.50		ug/L			02/16/16 17:26	1
o-Xylene	ND		0.50		ug/L			02/16/16 17:26	1
Styrene	ND		0.50		ug/L			02/16/16 17:26	1
Tetrachloroethene	ND		0.50		ug/L			02/16/16 17:26	1
Toluene	ND		0.20		ug/L			02/16/16 17:26	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 17:26	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/16/16 17:26	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/16/16 17:26	1
Trichloroethene	ND		0.20		ug/L			02/16/16 17:26	1
Trichlorofluoromethane	ND		0.50		ug/L			02/16/16 17:26	1
Vinyl acetate	ND		1.0		ug/L			02/16/16 17:26	1
Vinyl chloride	ND		0.020		ug/L			02/16/16 17:26	1

Client Sample Results

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-98
Date Collected: 02/03/16 12:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 128		02/16/16 17:26	1
4-Bromofluorobenzene (Surr)	91		75 - 120		02/16/16 17:26	1
Dibromofluoromethane (Surr)	95		85 - 115		02/16/16 17:26	1
Toluene-d8 (Surr)	106		75 - 125		02/16/16 17:26	1
Trifluorotoluene (Surr)	101		80 - 127		02/16/16 17:26	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-100
Date Collected: 02/03/16 13:38
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 16:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/16/16 16:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 16:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/16/16 16:58	1
1,1-Dichloroethane	ND		0.20		ug/L			02/16/16 16:58	1
1,1-Dichloroethene	ND		0.10		ug/L			02/16/16 16:58	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/16/16 16:58	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/16/16 16:58	1
1,2-Dibromoethane	ND		0.10		ug/L			02/16/16 16:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/16/16 16:58	1
1,2-Dichloroethane	ND		0.20		ug/L			02/16/16 16:58	1
1,2-Dichloropropane	ND		0.20		ug/L			02/16/16 16:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/16/16 16:58	1
2-Butanone	ND		15		ug/L			02/16/16 16:58	1
2-Hexanone	ND		2.0		ug/L			02/16/16 16:58	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/16/16 16:58	1
Acetone	ND		2.0		ug/L			02/16/16 16:58	1
Acrylonitrile	ND		5.0		ug/L			02/16/16 16:58	1
Benzene	ND		0.20		ug/L			02/16/16 16:58	1
Bromochloromethane	ND		0.20		ug/L			02/16/16 16:58	1
Bromodichloromethane	ND		0.20		ug/L			02/16/16 16:58	1
Bromoform	ND		0.50		ug/L			02/16/16 16:58	1
Bromomethane	ND	*	1.0		ug/L			02/16/16 16:58	1
Carbon disulfide	ND		0.20		ug/L			02/16/16 16:58	1
Carbon tetrachloride	ND		0.20		ug/L			02/16/16 16:58	1
Chlorobenzene	ND		0.20		ug/L			02/16/16 16:58	1
Chloroethane	ND		0.50		ug/L			02/16/16 16:58	1
Chloroform	ND		0.20		ug/L			02/16/16 16:58	1
Chloromethane	ND		0.30		ug/L			02/16/16 16:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 16:58	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/16/16 16:58	1
Dibromochloromethane	ND	*	0.20		ug/L			02/16/16 16:58	1
Dibromomethane	ND		0.20		ug/L			02/16/16 16:58	1
Ethylbenzene	ND		0.20		ug/L			02/16/16 16:58	1
m,p-Xylene	ND		0.50		ug/L			02/16/16 16:58	1
Methyl iodide	ND		0.50		ug/L			02/16/16 16:58	1
Methylene Chloride	ND		0.50		ug/L			02/16/16 16:58	1
o-Xylene	ND		0.50		ug/L			02/16/16 16:58	1
Styrene	ND		0.50		ug/L			02/16/16 16:58	1
Tetrachloroethene	ND		0.50		ug/L			02/16/16 16:58	1
Toluene	ND		0.20		ug/L			02/16/16 16:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 16:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/16/16 16:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/16/16 16:58	1
Trichloroethene	ND		0.20		ug/L			02/16/16 16:58	1
Trichlorofluoromethane	ND		0.50		ug/L			02/16/16 16:58	1
Vinyl acetate	ND		1.0		ug/L			02/16/16 16:58	1
Vinyl chloride	ND		0.020		ug/L			02/16/16 16:58	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-100
Date Collected: 02/03/16 13:38
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 128		02/16/16 16:58	1
4-Bromofluorobenzene (Surr)	91		75 - 120		02/16/16 16:58	1
Dibromofluoromethane (Surr)	94		85 - 115		02/16/16 16:58	1
Toluene-d8 (Surr)	105		75 - 125		02/16/16 16:58	1
Trifluorotoluene (Surr)	103		80 - 127		02/16/16 16:58	1

Client Sample ID: Trip Blank
Date Collected: 02/03/16 00:00
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 12:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/16/16 12:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 12:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/16/16 12:01	1
1,1-Dichloroethane	ND		0.20		ug/L			02/16/16 12:01	1
1,1-Dichloroethene	ND		0.10		ug/L			02/16/16 12:01	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			02/16/16 12:01	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/16/16 12:01	1
1,2-Dibromoethane	ND		0.10		ug/L			02/16/16 12:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/16/16 12:01	1
1,2-Dichloroethane	ND		0.20		ug/L			02/16/16 12:01	1
1,2-Dichloropropane	ND		0.20		ug/L			02/16/16 12:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/16/16 12:01	1
2-Butanone	ND		15		ug/L			02/16/16 12:01	1
2-Hexanone	ND		2.0		ug/L			02/16/16 12:01	1
4-Methyl-2-pentanone	ND	*	5.0		ug/L			02/16/16 12:01	1
Acetone	ND		2.0		ug/L			02/16/16 12:01	1
Acrylonitrile	ND		5.0		ug/L			02/16/16 12:01	1
Benzene	ND		0.20		ug/L			02/16/16 12:01	1
Bromochloromethane	ND		0.20		ug/L			02/16/16 12:01	1
Bromodichloromethane	ND		0.20		ug/L			02/16/16 12:01	1
Bromoform	ND		0.50		ug/L			02/16/16 12:01	1
Bromomethane	ND	*	1.0		ug/L			02/16/16 12:01	1
Carbon disulfide	ND		0.20		ug/L			02/16/16 12:01	1
Carbon tetrachloride	ND		0.20		ug/L			02/16/16 12:01	1
Chlorobenzene	ND		0.20		ug/L			02/16/16 12:01	1
Chloroethane	ND		0.50		ug/L			02/16/16 12:01	1
Chloroform	ND		0.20		ug/L			02/16/16 12:01	1
Chloromethane	ND		0.30		ug/L			02/16/16 12:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 12:01	1
cis-1,3-Dichloropropene	ND	*	0.50		ug/L			02/16/16 12:01	1
Dibromochloromethane	ND	*	0.20		ug/L			02/16/16 12:01	1
Dibromomethane	ND		0.20		ug/L			02/16/16 12:01	1
Ethylbenzene	ND		0.20		ug/L			02/16/16 12:01	1
m,p-Xylene	ND		0.50		ug/L			02/16/16 12:01	1
Methyl iodide	ND		0.50		ug/L			02/16/16 12:01	1
Methylene Chloride	ND		0.50		ug/L			02/16/16 12:01	1
o-Xylene	ND		0.50		ug/L			02/16/16 12:01	1
Styrene	ND		0.50		ug/L			02/16/16 12:01	1
Tetrachloroethene	ND		0.50		ug/L			02/16/16 12:01	1
Toluene	ND		0.20		ug/L			02/16/16 12:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 12:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/16/16 12:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/16/16 12:01	1
Trichloroethene	ND		0.20		ug/L			02/16/16 12:01	1
Trichlorofluoromethane	ND		0.50		ug/L			02/16/16 12:01	1
Vinyl acetate	ND		1.0		ug/L			02/16/16 12:01	1
Vinyl chloride	ND		0.020		ug/L			02/16/16 12:01	1

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: Trip Blank
Date Collected: 02/03/16 00:00
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-16
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 128		02/16/16 12:01	1
4-Bromofluorobenzene (Surr)	92		75 - 120		02/16/16 12:01	1
Dibromofluoromethane (Surr)	100		85 - 115		02/16/16 12:01	1
Toluene-d8 (Surr)	107		75 - 125		02/16/16 12:01	1
Trifluorotoluene (Surr)	100		80 - 127		02/16/16 12:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-211349/4
Matrix: Water
Analysis Batch: 211349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 09:19	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/16/16 09:19	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/16/16 09:19	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/16/16 09:19	1
1,1-Dichloroethane	ND		0.20		ug/L			02/16/16 09:19	1
1,1-Dichloroethene	ND		0.10		ug/L			02/16/16 09:19	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/16/16 09:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/16/16 09:19	1
1,2-Dibromoethane	ND		0.10		ug/L			02/16/16 09:19	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/16/16 09:19	1
1,2-Dichloroethane	ND		0.20		ug/L			02/16/16 09:19	1
1,2-Dichloropropane	ND		0.20		ug/L			02/16/16 09:19	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/16/16 09:19	1
2-Butanone	ND		15		ug/L			02/16/16 09:19	1
2-Hexanone	ND		2.0		ug/L			02/16/16 09:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/16/16 09:19	1
Acetone	ND		2.0		ug/L			02/16/16 09:19	1
Acrylonitrile	ND		5.0		ug/L			02/16/16 09:19	1
Benzene	ND		0.20		ug/L			02/16/16 09:19	1
Bromochloromethane	ND		0.20		ug/L			02/16/16 09:19	1
Bromodichloromethane	ND		0.20		ug/L			02/16/16 09:19	1
Bromoform	ND		0.50		ug/L			02/16/16 09:19	1
Bromomethane	ND		1.0		ug/L			02/16/16 09:19	1
Carbon disulfide	ND		0.20		ug/L			02/16/16 09:19	1
Carbon tetrachloride	ND		0.20		ug/L			02/16/16 09:19	1
Chlorobenzene	ND		0.20		ug/L			02/16/16 09:19	1
Chloroethane	ND		0.50		ug/L			02/16/16 09:19	1
Chloroform	ND		0.20		ug/L			02/16/16 09:19	1
Chloromethane	ND		0.30		ug/L			02/16/16 09:19	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 09:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/16/16 09:19	1
Dibromochloromethane	ND		0.20		ug/L			02/16/16 09:19	1
Dibromomethane	ND		0.20		ug/L			02/16/16 09:19	1
Ethylbenzene	ND		0.20		ug/L			02/16/16 09:19	1
m,p-Xylene	ND		0.50		ug/L			02/16/16 09:19	1
Methyl iodide	ND		0.50		ug/L			02/16/16 09:19	1
Methylene Chloride	ND		0.50		ug/L			02/16/16 09:19	1
o-Xylene	ND		0.50		ug/L			02/16/16 09:19	1
Styrene	ND		0.50		ug/L			02/16/16 09:19	1
Tetrachloroethene	ND		0.50		ug/L			02/16/16 09:19	1
Toluene	ND		0.20		ug/L			02/16/16 09:19	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/16/16 09:19	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/16/16 09:19	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/16/16 09:19	1
Trichloroethene	ND		0.20		ug/L			02/16/16 09:19	1
Trichlorofluoromethane	ND		0.50		ug/L			02/16/16 09:19	1
Vinyl acetate	ND		1.0		ug/L			02/16/16 09:19	1
Vinyl chloride	ND		0.020		ug/L			02/16/16 09:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 128*		*02/16/16 09:19*	*1*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*		*02/16/16 09:19*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*02/16/16 09:19*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*02/16/16 09:19*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 127*		*02/16/16 09:19*	*1*

Lab Sample ID: LCS 580-211349/5
Matrix: Water
Analysis Batch: 211349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	5.72		ug/L		114	75 - 125
1,1,1-Trichloroethane	5.02	6.40		ug/L		128	80 - 140
1,1,2,2-Tetrachloroethane	5.01	5.63		ug/L		112	75 - 125
1,1,2-Trichloroethane	5.02	5.68		ug/L		113	80 - 130
1,1-Dichloroethane	5.00	5.22		ug/L		104	75 - 135
1,1-Dichloroethene	5.04	4.42		ug/L		88	70 - 150
1,2,3-Trichloropropane	5.01	6.89	*	ug/L		138	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	6.31	*	ug/L		126	55 - 120
1,2-Dibromoethane	5.01	6.07		ug/L		121	70 - 130
1,2-Dichlorobenzene	5.00	5.03		ug/L		101	80 - 130
1,2-Dichloroethane	5.00	6.59		ug/L		132	80 - 140
1,2-Dichloropropane	5.00	4.72		ug/L		94	80 - 120
1,4-Dichlorobenzene	5.01	4.85		ug/L		97	80 - 120
2-Butanone	20.0	23.5		ug/L		118	20 - 200
2-Hexanone	20.0	31.0		ug/L		155	52 - 160
4-Methyl-2-pentanone	20.0	28.9	*	ug/L		145	55 - 135
Acetone	20.0	20.2		ug/L		101	30 - 200
Acrylonitrile	50.0	57.4		ug/L		115	65 - 150
Benzene	5.02	4.66		ug/L		93	80 - 120
Bromochloromethane	5.01	5.33		ug/L		106	80 - 125
Bromodichloromethane	5.02	6.23		ug/L		124	80 - 125
Bromoform	5.02	5.88		ug/L		117	65 - 130
Bromomethane	5.01	5.74		ug/L		115	70 - 135
Carbon disulfide	5.02	4.72		ug/L		94	65 - 160
Carbon tetrachloride	5.01	6.27		ug/L		125	75 - 140
Chlorobenzene	5.02	4.84		ug/L		96	80 - 120
Chloroethane	5.02	5.32		ug/L		106	75 - 140
Chloroform	5.00	5.42		ug/L		108	80 - 130
Chloromethane	5.02	6.94		ug/L		138	50 - 140
cis-1,2-Dichloroethene	5.01	4.82		ug/L		96	80 - 130
cis-1,3-Dichloropropene	5.01	6.39	*	ug/L		127	70 - 120
Dibromochloromethane	5.01	6.88	*	ug/L		137	70 - 120
Dibromomethane	5.02	5.48		ug/L		109	80 - 130
Ethylbenzene	5.02	5.47		ug/L		109	80 - 125
m,p-Xylene	5.01	5.69		ug/L		113	80 - 130
Methyl iodide	5.02	5.01		ug/L		100	60 - 160
Methylene Chloride	5.02	4.33		ug/L		86	60 - 145
o-Xylene	5.01	5.83		ug/L		117	80 - 120
Styrene	5.01	5.65		ug/L		113	75 - 130
Tetrachloroethene	5.01	4.99		ug/L		100	40 - 180
Toluene	5.00	5.12		ug/L		102	80 - 120
trans-1,2-Dichloroethene	5.01	5.01		ug/L		100	80 - 140
trans-1,3-Dichloropropene	5.00	6.70		ug/L		134	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211349/5
Matrix: Water
Analysis Batch: 211349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	6.26		ug/L		125	40 - 140
Trichloroethene	5.01	4.92		ug/L		98	80 - 130
Trichlorofluoromethane	5.00	6.71		ug/L		134	30 - 180
Vinyl acetate	12.5	15.5		ug/L		124	30 - 200
Vinyl chloride	5.03	5.21		ug/L		104	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*
4-Bromofluorobenzene (Surr)	*93*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*85 - 115*
Toluene-d8 (Surr)	*105*		*75 - 125*
Trifluorotoluene (Surr)	*96*		*80 - 127*

Lab Sample ID: LCSD 580-211349/6
Matrix: Water
Analysis Batch: 211349

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
1,1,1,2-Tetrachloroethane	5.02	5.81		ug/L		116	75 - 125	2	20
1,1,1-Trichloroethane	5.02	6.08		ug/L		121	80 - 140	5	20
1,1,2,2-Tetrachloroethane	5.01	5.23		ug/L		105	75 - 125	7	20
1,1,2-Trichloroethane	5.02	5.01		ug/L		100	80 - 130	13	20
1,1-Dichloroethane	5.00	5.40		ug/L		108	75 - 135	3	20
1,1-Dichloroethene	5.04	4.98		ug/L		99	70 - 150	12	20
1,2,3-Trichloropropane	5.01	6.71	*	ug/L		134	75 - 120	3	20
1,2-Dibromo-3-Chloropropane	5.01	6.29	*	ug/L		126	55 - 120	0	20
1,2-Dibromoethane	5.01	5.81		ug/L		116	70 - 130	4	20
1,2-Dichlorobenzene	5.00	5.02		ug/L		100	80 - 130	0	20
1,2-Dichloroethane	5.00	6.33		ug/L		127	80 - 140	4	20
1,2-Dichloropropane	5.00	4.56		ug/L		91	80 - 120	4	20
1,4-Dichlorobenzene	5.01	4.94		ug/L		99	80 - 120	2	20
2-Butanone	20.0	20.2		ug/L		101	20 - 200	15	20
2-Hexanone	20.0	26.2		ug/L		131	52 - 160	17	20
4-Methyl-2-pentanone	20.0	23.9		ug/L		120	55 - 135	19	20
Acetone	20.0	21.3		ug/L		106	30 - 200	5	20
Acrylonitrile	50.0	52.4		ug/L		105	65 - 150	9	20
Benzene	5.02	4.61		ug/L		92	80 - 120	1	20
Bromochloromethane	5.01	5.23		ug/L		104	80 - 125	2	20
Bromodichloromethane	5.02	5.98		ug/L		119	80 - 125	4	20
Bromoform	5.02	5.42		ug/L		108	65 - 130	8	20
Bromomethane	5.01	4.52	*	ug/L		90	70 - 135	24	20
Carbon disulfide	5.02	5.36		ug/L		107	65 - 160	13	20
Carbon tetrachloride	5.01	6.14		ug/L		122	75 - 140	2	20
Chlorobenzene	5.02	4.84		ug/L		96	80 - 120	0	20
Chloroethane	5.02	4.61		ug/L		92	75 - 140	14	20
Chloroform	5.00	5.16		ug/L		103	80 - 130	5	20
Chloromethane	5.02	6.75		ug/L		135	50 - 140	3	20
cis-1,2-Dichloroethene	5.01	4.74		ug/L		95	80 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-211349/6
Matrix: Water
Analysis Batch: 211349

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
cis-1,3-Dichloropropene			5.01	5.36		ug/L		107	70 - 120	17	20
Dibromochloromethane			5.01	6.37	*	ug/L		127	70 - 120	8	20
Dibromomethane			5.02	5.43		ug/L		108	80 - 130	1	20
Ethylbenzene			5.02	5.33		ug/L		106	80 - 125	3	20
m,p-Xylene			5.01	5.65		ug/L		113	80 - 130	1	20
Methyl iodide			5.02	5.41		ug/L		108	60 - 160	8	20
Methylene Chloride			5.02	5.01		ug/L		100	60 - 145	15	20
o-Xylene			5.01	5.69		ug/L		114	80 - 120	2	20
Styrene			5.01	5.67		ug/L		113	75 - 130	0	20
Tetrachloroethene			5.01	4.62		ug/L		92	40 - 180	8	20
Toluene			5.00	4.55		ug/L		91	80 - 120	12	20
trans-1,2-Dichloroethene			5.01	5.43		ug/L		108	80 - 140	8	20
trans-1,3-Dichloropropene			5.00	5.76		ug/L		115	60 - 140	15	20
trans-1,4-Dichloro-2-butene			5.00	6.26		ug/L		125	40 - 140	0	20
Trichloroethene			5.01	5.11		ug/L		102	80 - 130	4	20
Trichlorofluoromethane			5.00	5.53		ug/L		111	30 - 180	19	20
Vinyl acetate			12.5	14.3		ug/L		114	30 - 200	8	20
Vinyl chloride			5.03	5.09		ug/L		101	65 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*
4-Bromofluorobenzene (Surr)	*90*		*75 - 120*
Dibromofluoromethane (Surr)	*94*		*85 - 115*
Toluene-d8 (Surr)	*92*		*75 - 125*
Trifluorotoluene (Surr)	*86*		*80 - 127*

Lab Sample ID: MB 580-211444/4
Matrix: Water
Analysis Batch: 211444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 09:36	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/17/16 09:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/17/16 09:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/17/16 09:36	1
1,1-Dichloroethane	ND		0.20		ug/L			02/17/16 09:36	1
1,1-Dichloroethene	ND		0.10		ug/L			02/17/16 09:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/17/16 09:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/17/16 09:36	1
1,2-Dibromoethane	ND		0.10		ug/L			02/17/16 09:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/17/16 09:36	1
1,2-Dichloroethane	ND		0.20		ug/L			02/17/16 09:36	1
1,2-Dichloropropane	ND		0.20		ug/L			02/17/16 09:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/17/16 09:36	1
2-Butanone	ND		15		ug/L			02/17/16 09:36	1
2-Hexanone	ND		2.0		ug/L			02/17/16 09:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/17/16 09:36	1
Acetone	ND		2.0		ug/L			02/17/16 09:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-211444/4
Matrix: Water
Analysis Batch: 211444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0		ug/L			02/17/16 09:36	1
Benzene	ND		0.20		ug/L			02/17/16 09:36	1
Bromochloromethane	ND		0.20		ug/L			02/17/16 09:36	1
Bromodichloromethane	ND		0.20		ug/L			02/17/16 09:36	1
Bromoform	ND		0.50		ug/L			02/17/16 09:36	1
Bromomethane	ND		1.0		ug/L			02/17/16 09:36	1
Carbon disulfide	ND		0.20		ug/L			02/17/16 09:36	1
Carbon tetrachloride	ND		0.20		ug/L			02/17/16 09:36	1
Chlorobenzene	ND		0.20		ug/L			02/17/16 09:36	1
Chloroethane	ND		0.50		ug/L			02/17/16 09:36	1
Chloroform	ND		0.20		ug/L			02/17/16 09:36	1
Chloromethane	ND		0.30		ug/L			02/17/16 09:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 09:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/17/16 09:36	1
Dibromochloromethane	ND		0.20		ug/L			02/17/16 09:36	1
Dibromomethane	ND		0.20		ug/L			02/17/16 09:36	1
Ethylbenzene	ND		0.20		ug/L			02/17/16 09:36	1
m,p-Xylene	ND		0.50		ug/L			02/17/16 09:36	1
Methyl iodide	ND		0.50		ug/L			02/17/16 09:36	1
Methylene Chloride	ND		0.50		ug/L			02/17/16 09:36	1
o-Xylene	ND		0.50		ug/L			02/17/16 09:36	1
Styrene	ND		0.50		ug/L			02/17/16 09:36	1
Tetrachloroethene	ND		0.50		ug/L			02/17/16 09:36	1
Toluene	ND		0.20		ug/L			02/17/16 09:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/17/16 09:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/17/16 09:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/17/16 09:36	1
Trichloroethene	ND		0.20		ug/L			02/17/16 09:36	1
Trichlorofluoromethane	ND		0.50		ug/L			02/17/16 09:36	1
Vinyl acetate	ND		1.0		ug/L			02/17/16 09:36	1
Vinyl chloride	ND		0.020		ug/L			02/17/16 09:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 128*		*02/17/16 09:36*	*1*
4-Bromofluorobenzene (Surr)	*91*		*75 - 120*		*02/17/16 09:36*	*1*
Dibromofluoromethane (Surr)	*88*		*85 - 115*		*02/17/16 09:36*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*02/17/16 09:36*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*02/17/16 09:36*	*1*

Lab Sample ID: LCS 580-211444/5
Matrix: Water
Analysis Batch: 211444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	5.54		ug/L		110	75 - 125
1,1,1-Trichloroethane	5.02	6.05		ug/L		121	80 - 140
1,1,2,2-Tetrachloroethane	5.01	6.46	*	ug/L		129	75 - 125
1,1,2-Trichloroethane	5.02	5.11		ug/L		102	80 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211444/5
Matrix: Water
Analysis Batch: 211444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	5.00	4.97		ug/L		99	75 - 135
1,1-Dichloroethene	5.04	4.83		ug/L		96	70 - 150
1,2,3-Trichloropropane	5.01	7.52	*	ug/L		150	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	6.33	*	ug/L		126	55 - 120
1,2-Dibromoethane	5.01	5.30		ug/L		106	70 - 130
1,2-Dichlorobenzene	5.00	5.00		ug/L		100	80 - 130
1,2-Dichloroethane	5.00	6.30		ug/L		126	80 - 140
1,2-Dichloropropane	5.00	4.68		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.01	4.79		ug/L		96	80 - 120
2-Butanone	20.0	22.0		ug/L		110	20 - 200
2-Hexanone	20.0	29.4		ug/L		147	52 - 160
4-Methyl-2-pentanone	20.0	24.9		ug/L		125	55 - 135
Acetone	20.0	14.8		ug/L		74	30 - 200
Acrylonitrile	50.0	54.0		ug/L		108	65 - 150
Benzene	5.02	4.91		ug/L		98	80 - 120
Bromochloromethane	5.01	5.12		ug/L		102	80 - 125
Bromodichloromethane	5.02	5.57		ug/L		111	80 - 125
Bromoform	5.02	5.36		ug/L		107	65 - 130
Bromomethane	5.01	5.19		ug/L		104	70 - 135
Carbon disulfide	5.02	4.97		ug/L		99	65 - 160
Carbon tetrachloride	5.01	5.65		ug/L		113	75 - 140
Chlorobenzene	5.02	4.88		ug/L		97	80 - 120
Chloroethane	5.02	5.49		ug/L		110	75 - 140
Chloroform	5.00	4.85		ug/L		97	80 - 130
Chloromethane	5.02	7.37	*	ug/L		147	50 - 140
cis-1,2-Dichloroethene	5.01	4.71		ug/L		94	80 - 130
cis-1,3-Dichloropropene	5.01	5.55		ug/L		111	70 - 120
Dibromochloromethane	5.01	5.78		ug/L		115	70 - 120
Dibromomethane	5.02	5.18		ug/L		103	80 - 130
Ethylbenzene	5.02	5.23		ug/L		104	80 - 125
m,p-Xylene	5.01	5.49		ug/L		110	80 - 130
Methyl iodide	5.02	4.90		ug/L		98	60 - 160
Methylene Chloride	5.02	4.65		ug/L		93	60 - 145
o-Xylene	5.01	5.58		ug/L		111	80 - 120
Styrene	5.01	5.58		ug/L		111	75 - 130
Tetrachloroethene	5.01	4.53		ug/L		90	40 - 180
Toluene	5.00	4.94		ug/L		99	80 - 120
trans-1,2-Dichloroethene	5.01	4.88		ug/L		97	80 - 140
trans-1,3-Dichloropropene	5.00	5.78		ug/L		116	60 - 140
trans-1,4-Dichloro-2-butene	5.00	7.16	*	ug/L		143	40 - 140
Trichloroethene	5.01	4.86		ug/L		97	80 - 130
Trichlorofluoromethane	5.00	5.53		ug/L		110	30 - 180
Vinyl acetate	12.5	16.3		ug/L		130	30 - 200
Vinyl chloride	5.03	5.63		ug/L		112	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 128*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-211444/5
Matrix: Water
Analysis Batch: 211444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*91*		*85 - 115*
Toluene-d8 (Surr)	*105*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*80 - 127*

Lab Sample ID: LCSD 580-211444/6
Matrix: Water
Analysis Batch: 211444

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
1,1,1,2-Tetrachloroethane			5.02	5.55		ug/L		110	75 - 125	0	20
1,1,1-Trichloroethane			5.02	5.22		ug/L		104	80 - 140	15	20
1,1,2,2-Tetrachloroethane			5.01	5.81		ug/L		116	75 - 125	11	20
1,1,2-Trichloroethane			5.02	4.95		ug/L		99	80 - 130	3	20
1,1-Dichloroethane			5.00	4.72		ug/L		94	75 - 135	5	20
1,1-Dichloroethene			5.04	4.17		ug/L		83	70 - 150	15	20
1,2,3-Trichloropropane			5.01	6.66	*	ug/L		133	75 - 120	12	20
1,2-Dibromo-3-Chloropropane			5.01	6.39	*	ug/L		128	55 - 120	1	20
1,2-Dibromoethane			5.01	5.34		ug/L		107	70 - 130	1	20
1,2-Dichlorobenzene			5.00	5.21		ug/L		104	80 - 130	4	20
1,2-Dichloroethane			5.00	5.11	*	ug/L		102	80 - 140	21	20
1,2-Dichloropropane			5.00	4.36		ug/L		87	80 - 120	7	20
1,4-Dichlorobenzene			5.01	5.04		ug/L		101	80 - 120	5	20
2-Butanone			20.0	21.3		ug/L		106	20 - 200	3	20
2-Hexanone			20.0	28.3		ug/L		141	52 - 160	4	20
4-Methyl-2-pentanone			20.0	26.2		ug/L		131	55 - 135	5	20
Acetone			20.0	12.8		ug/L		64	30 - 200	14	20
Acrylonitrile			50.0	54.3		ug/L		108	65 - 150	1	20
Benzene			5.02	4.84		ug/L		96	80 - 120	2	20
Bromochloromethane			5.01	4.79		ug/L		96	80 - 125	7	20
Bromodichloromethane			5.02	5.04		ug/L		100	80 - 125	10	20
Bromoform			5.02	5.30		ug/L		106	65 - 130	1	20
Bromomethane			5.01	4.63		ug/L		93	70 - 135	11	20
Carbon disulfide			5.02	4.56		ug/L		91	65 - 160	9	20
Carbon tetrachloride			5.01	5.52		ug/L		110	75 - 140	2	20
Chlorobenzene			5.02	4.94		ug/L		98	80 - 120	1	20
Chloroethane			5.02	4.41	*	ug/L		88	75 - 140	22	20
Chloroform			5.00	4.44		ug/L		89	80 - 130	9	20
Chloromethane			5.02	6.41		ug/L		128	50 - 140	14	20
cis-1,2-Dichloroethene			5.01	4.47		ug/L		89	80 - 130	5	20
cis-1,3-Dichloropropene			5.01	5.62		ug/L		112	70 - 120	1	20
Dibromochloromethane			5.01	5.79		ug/L		116	70 - 120	0	20
Dibromomethane			5.02	4.89		ug/L		98	80 - 130	6	20
Ethylbenzene			5.02	5.49		ug/L		109	80 - 125	5	20
m,p-Xylene			5.01	5.69		ug/L		114	80 - 130	4	20
Methyl iodide			5.02	4.80		ug/L		96	60 - 160	2	20
Methylene Chloride			5.02	4.48		ug/L		89	60 - 145	4	20
o-Xylene			5.01	5.64		ug/L		113	80 - 120	1	20
Styrene			5.01	5.72		ug/L		114	75 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-211444/6
Matrix: Water
Analysis Batch: 211444

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
Tetrachloroethene			5.01	4.72		ug/L		94	40 - 180	4	20
Toluene			5.00	4.63		ug/L		93	80 - 120	6	20
trans-1,2-Dichloroethene			5.01	4.92		ug/L		98	80 - 140	1	20
trans-1,3-Dichloropropene			5.00	5.81		ug/L		116	60 - 140	0	20
trans-1,4-Dichloro-2-butene			5.00	6.30		ug/L		126	40 - 140	13	20
Trichloroethene			5.01	4.41		ug/L		88	80 - 130	10	20
Trichlorofluoromethane			5.00	4.37	*	ug/L		87	30 - 180	23	20
Vinyl acetate			12.5	14.7		ug/L		118	30 - 200	10	20
Vinyl chloride			5.03	4.68		ug/L		93	65 - 140	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 128*
4-Bromofluorobenzene (Surr)	*89*		*75 - 120*
Dibromofluoromethane (Surr)	*85*		*85 - 115*
Toluene-d8 (Surr)	*92*		*75 - 125*
Trifluorotoluene (Surr)	*89*		*80 - 127*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-238092/3
Matrix: Water
Analysis Batch: 238092

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10		mg/L			02/26/16 13:56	1
Chloride	ND		0.20		mg/L			02/26/16 13:56	1
Sulfate	ND		0.50		mg/L			02/26/16 13:56	1

Lab Sample ID: LCS 160-238092/4
Matrix: Water
Analysis Batch: 238092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			1.00	1.00		mg/L		100	90 - 110		
Chloride			2.00	1.87		mg/L		93	90 - 110		
Sulfate			8.00	7.54		mg/L		94	90 - 110		

Lab Sample ID: 580-57130-1 MS
Matrix: Water
Analysis Batch: 238092

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND	F1	2.00	2.31	F1	mg/L		112	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-57130-1 DU
Matrix: Water
Analysis Batch: 238092

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND	F1	ND		mg/L		8	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 580-57130-1 MS
Matrix: Water
Analysis Batch: 238092

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	63		40.0	103	E	mg/L		99	90 - 110
Sulfate - DL	37		80.0	112		mg/L		94	90 - 110

Lab Sample ID: 580-57130-1 DU
Matrix: Water
Analysis Batch: 238092

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	63		64.0		mg/L		1	20
Sulfate - DL	37		36.9		mg/L		0.05	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-211106/20-A
Matrix: Water
Analysis Batch: 211518

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/11/16 10:47	02/17/16 15:35	1
Iron	ND		0.30		mg/L		02/11/16 10:47	02/17/16 15:35	1
Magnesium	ND		1.1		mg/L		02/11/16 10:47	02/17/16 15:35	1
Manganese	ND		0.020		mg/L		02/11/16 10:47	02/17/16 15:35	1
Potassium	ND		3.3		mg/L		02/11/16 10:47	02/17/16 15:35	1
Sodium	ND		2.0		mg/L		02/11/16 10:47	02/17/16 15:35	1

Lab Sample ID: LCS 580-211106/21-A
Matrix: Water
Analysis Batch: 211518

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	19.3		mg/L		96	80 - 120
Iron	22.0	21.3		mg/L		97	80 - 120
Magnesium	20.0	18.9		mg/L		95	80 - 120
Manganese	1.00	0.985		mg/L		98	80 - 120
Potassium	20.0	19.2		mg/L		96	80 - 120
Sodium	20.0	20.2		mg/L		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-211106/22-A
Matrix: Water
Analysis Batch: 211518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.9		mg/L		99	80 - 120	3	20
Iron	22.0	21.9		mg/L		100	80 - 120	3	20
Magnesium	20.0	19.4		mg/L		97	80 - 120	3	20
Manganese	1.00	1.01		mg/L		101	80 - 120	3	20
Potassium	20.0	19.8		mg/L		99	80 - 120	3	20
Sodium	20.0	20.5		mg/L		103	80 - 120	2	20

Lab Sample ID: MB 580-211150/20-A
Matrix: Water
Analysis Batch: 211272

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/11/16 15:20	02/12/16 14:41	1
Iron	ND		0.30		mg/L		02/11/16 15:20	02/12/16 14:41	1
Magnesium	ND		1.1		mg/L		02/11/16 15:20	02/12/16 14:41	1
Manganese	ND		0.020		mg/L		02/11/16 15:20	02/12/16 14:41	1
Potassium	ND		3.3		mg/L		02/11/16 15:20	02/12/16 14:41	1
Sodium	ND		2.0		mg/L		02/11/16 15:20	02/12/16 14:41	1

Lab Sample ID: LCS 580-211150/21-A
Matrix: Water
Analysis Batch: 211272

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.0		mg/L		100	80 - 120
Iron	22.0	22.0		mg/L		100	80 - 120
Magnesium	20.0	20.3		mg/L		102	80 - 120
Manganese	1.00	1.01		mg/L		101	80 - 120
Potassium	20.0	19.7		mg/L		98	80 - 120
Sodium	20.0	19.9		mg/L		99	80 - 120

Lab Sample ID: LCSD 580-211150/22-A
Matrix: Water
Analysis Batch: 211272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	22.0		mg/L		110	80 - 120	9	20
Iron	22.0	24.2		mg/L		110	80 - 120	10	20
Magnesium	20.0	22.3		mg/L		111	80 - 120	9	20
Manganese	1.00	1.11		mg/L		111	80 - 120	9	20
Potassium	20.0	21.4		mg/L		107	80 - 120	8	20
Sodium	20.0	21.7		mg/L		108	80 - 120	9	20

Lab Sample ID: MB 580-211321/19-A
Matrix: Water
Analysis Batch: 211396

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/15/16 15:20	02/16/16 12:48	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 580-211321/19-A
Matrix: Water
Analysis Batch: 211396

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.30		mg/L		02/15/16 15:20	02/16/16 12:48	1
Magnesium	ND		1.1		mg/L		02/15/16 15:20	02/16/16 12:48	1
Manganese	ND		0.020		mg/L		02/15/16 15:20	02/16/16 12:48	1
Potassium	ND		3.3		mg/L		02/15/16 15:20	02/16/16 12:48	1
Sodium	ND		2.0		mg/L		02/15/16 15:20	02/16/16 12:48	1

Lab Sample ID: LCS 580-211321/20-A
Matrix: Water
Analysis Batch: 211396

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.7		mg/L		103	80 - 120
Iron	22.0	22.4		mg/L		102	80 - 120
Magnesium	20.0	20.4		mg/L		102	80 - 120
Manganese	1.00	1.02		mg/L		102	80 - 120
Potassium	20.0	19.8		mg/L		99	80 - 120
Sodium	20.0	20.3		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-211321/21-A
Matrix: Water
Analysis Batch: 211396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.2		mg/L		101	80 - 120	2	20
Iron	22.0	21.9		mg/L		100	80 - 120	2	20
Magnesium	20.0	20.0		mg/L		100	80 - 120	2	20
Manganese	1.00	1.00		mg/L		100	80 - 120	2	20
Potassium	20.0	19.5		mg/L		97	80 - 120	2	20
Sodium	20.0	19.9		mg/L		99	80 - 120	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-211106/20-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Arsenic	ND		0.0010		mg/L		02/11/16 10:47	02/16/16 23:27	1
Barium	ND		0.0012		mg/L		02/11/16 10:47	02/16/16 23:27	1
Beryllium	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Cadmium	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Chromium	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Cobalt	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Copper	ND		0.0020		mg/L		02/11/16 10:47	02/16/16 23:27	1
Lead	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Nickel	ND		0.0030		mg/L		02/11/16 10:47	02/16/16 23:27	1
Selenium	ND		0.0010		mg/L		02/11/16 10:47	02/16/16 23:27	1
Silver	ND		0.00040		mg/L		02/11/16 10:47	02/16/16 23:27	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-211106/20-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.0010		mg/L		02/11/16 10:47	02/16/16 23:27	1
Vanadium	ND		0.0040		mg/L		02/11/16 10:47	02/16/16 23:27	1
Zinc	ND		0.0070		mg/L		02/11/16 10:47	02/16/16 23:27	1

Lab Sample ID: LCS 580-211106/21-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.09		mg/L		103	80 - 120
Arsenic	4.00	4.09		mg/L		102	80 - 120
Barium	4.00	4.17		mg/L		104	80 - 120
Beryllium	0.100	0.0964		mg/L		96	80 - 120
Cadmium	0.100	0.117		mg/L		117	80 - 120
Chromium	0.400	0.400		mg/L		100	80 - 120
Cobalt	1.00	0.968		mg/L		97	80 - 120
Copper	0.500	0.503		mg/L		101	80 - 120
Lead	1.00	0.983		mg/L		98	80 - 120
Nickel	1.00	0.997		mg/L		100	80 - 120
Selenium	4.00	4.25		mg/L		106	80 - 120
Silver	0.600	0.622		mg/L		104	80 - 120
Thallium	4.00	4.02		mg/L		101	80 - 120
Vanadium	1.00	1.00		mg/L		100	80 - 120
Zinc	4.00	4.00		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-211106/22-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.04		mg/L		101	80 - 120	2	20
Arsenic	4.00	4.03		mg/L		101	80 - 120	1	20
Barium	4.00	4.09		mg/L		102	80 - 120	2	20
Beryllium	0.100	0.0968		mg/L		97	80 - 120	0	20
Cadmium	0.100	0.114		mg/L		114	80 - 120	3	20
Chromium	0.400	0.393		mg/L		98	80 - 120	2	20
Cobalt	1.00	0.950		mg/L		95	80 - 120	2	20
Copper	0.500	0.493		mg/L		99	80 - 120	2	20
Lead	1.00	0.972		mg/L		97	80 - 120	1	20
Nickel	1.00	0.990		mg/L		99	80 - 120	1	20
Selenium	4.00	4.19		mg/L		105	80 - 120	1	20
Silver	0.600	0.614		mg/L		102	80 - 120	1	20
Thallium	4.00	4.00		mg/L		100	80 - 120	1	20
Vanadium	1.00	0.998		mg/L		100	80 - 120	0	20
Zinc	4.00	3.92		mg/L		98	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-211150/20-A
Matrix: Water
Analysis Batch: 211367

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Arsenic	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 19:54	1
Barium	ND		0.0012		mg/L		02/11/16 15:20	02/15/16 19:54	1
Beryllium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Cadmium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Chromium	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Cobalt	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Copper	ND		0.0020		mg/L		02/11/16 15:20	02/15/16 19:54	1
Lead	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Nickel	ND		0.0030		mg/L		02/11/16 15:20	02/15/16 19:54	1
Selenium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 19:54	1
Silver	ND		0.00040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Thallium	ND		0.0010		mg/L		02/11/16 15:20	02/15/16 19:54	1
Vanadium	ND		0.0040		mg/L		02/11/16 15:20	02/15/16 19:54	1
Zinc	ND		0.0070		mg/L		02/11/16 15:20	02/15/16 19:54	1

Lab Sample ID: LCS 580-211150/21-A
Matrix: Water
Analysis Batch: 211367

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.08		mg/L		103	80 - 120
Arsenic	4.00	4.11		mg/L		103	80 - 120
Barium	4.00	4.17		mg/L		104	80 - 120
Beryllium	0.100	0.0995		mg/L		99	80 - 120
Cadmium	0.100	0.0953		mg/L		95	80 - 120
Chromium	0.400	0.416		mg/L		104	80 - 120
Cobalt	1.00	1.00		mg/L		100	80 - 120
Copper	0.500	0.525		mg/L		105	80 - 120
Lead	1.00	1.01		mg/L		101	80 - 120
Nickel	1.00	1.05		mg/L		105	80 - 120
Selenium	4.00	4.14		mg/L		104	80 - 120
Silver	0.600	0.640		mg/L		107	80 - 120
Thallium	4.00	4.08		mg/L		102	80 - 120
Vanadium	1.00	1.04		mg/L		104	80 - 120
Zinc	4.00	4.16		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-211150/22-A
Matrix: Water
Analysis Batch: 211367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.12		mg/L		104	80 - 120	1	20
Arsenic	4.00	4.19		mg/L		105	80 - 120	2	20
Barium	4.00	4.20		mg/L		105	80 - 120	1	20
Beryllium	0.100	0.104		mg/L		104	80 - 120	4	20
Cadmium	0.100	0.101		mg/L		101	80 - 120	6	20
Chromium	0.400	0.425		mg/L		106	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-211150/22-A
Matrix: Water
Analysis Batch: 211367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211150

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	1.01		mg/L		101	80 - 120	1	20
Copper			0.500	0.540		mg/L		108	80 - 120	3	20
Lead			1.00	1.02		mg/L		102	80 - 120	1	20
Nickel			1.00	1.07		mg/L		107	80 - 120	2	20
Selenium			4.00	4.24		mg/L		106	80 - 120	2	20
Silver			0.600	0.647		mg/L		108	80 - 120	1	20
Thallium			4.00	4.09		mg/L		102	80 - 120	0	20
Vanadium			1.00	1.05		mg/L		105	80 - 120	2	20
Zinc			4.00	4.24		mg/L		106	80 - 120	2	20

Lab Sample ID: MB 580-211321/19-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Arsenic	ND		0.0010		mg/L		02/15/16 15:20	02/16/16 18:58	1
Barium	ND		0.0012		mg/L		02/15/16 15:20	02/16/16 18:58	1
Beryllium	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Cadmium	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Chromium	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Cobalt	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Copper	ND		0.0020		mg/L		02/15/16 15:20	02/16/16 18:58	1
Lead	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Nickel	ND		0.0030		mg/L		02/15/16 15:20	02/16/16 18:58	1
Selenium	ND		0.0010		mg/L		02/15/16 15:20	02/16/16 18:58	1
Silver	ND		0.00040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Thallium	ND		0.0010		mg/L		02/15/16 15:20	02/16/16 18:58	1
Vanadium	ND		0.0040		mg/L		02/15/16 15:20	02/16/16 18:58	1
Zinc	ND		0.0070		mg/L		02/15/16 15:20	02/16/16 18:58	1

Lab Sample ID: LCS 580-211321/20-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony			3.00	3.03		mg/L		101	80 - 120
Arsenic			4.00	4.17		mg/L		104	80 - 120
Barium			4.00	4.08		mg/L		102	80 - 120
Beryllium			0.100	0.102		mg/L		102	80 - 120
Cadmium			0.100	0.0980		mg/L		98	80 - 120
Chromium			0.400	0.408		mg/L		102	80 - 120
Cobalt			1.00	1.01		mg/L		101	80 - 120
Copper			0.500	0.525		mg/L		105	80 - 120
Lead			1.00	0.989		mg/L		99	80 - 120
Nickel			1.00	1.05		mg/L		105	80 - 120
Selenium			4.00	4.27		mg/L		107	80 - 120
Silver			0.600	0.620		mg/L		103	80 - 120
Thallium			4.00	4.11		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-211321/20-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	1.00	1.02		mg/L		102	80 - 120
Zinc	4.00	4.16		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-211321/21-A
Matrix: Water
Analysis Batch: 211423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 211321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.06		mg/L		102	80 - 120	1	20
Arsenic	4.00	4.16		mg/L		104	80 - 120	0	20
Barium	4.00	4.07		mg/L		102	80 - 120	0	20
Beryllium	0.100	0.101		mg/L		101	80 - 120	0	20
Cadmium	0.100	0.0967		mg/L		97	80 - 120	1	20
Chromium	0.400	0.412		mg/L		103	80 - 120	1	20
Cobalt	1.00	1.01		mg/L		101	80 - 120	0	20
Copper	0.500	0.526		mg/L		105	80 - 120	0	20
Lead	1.00	0.993		mg/L		99	80 - 120	0	20
Nickel	1.00	1.05		mg/L		105	80 - 120	0	20
Selenium	4.00	4.25		mg/L		106	80 - 120	0	20
Silver	0.600	0.627		mg/L		105	80 - 120	1	20
Thallium	4.00	4.10		mg/L		103	80 - 120	0	20
Vanadium	1.00	1.02		mg/L		102	80 - 120	0	20
Zinc	4.00	4.15		mg/L		104	80 - 120	0	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-211336/1-A
Matrix: Water
Analysis Batch: 211358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 14:00	02/15/16 14:00	1

Lab Sample ID: LCS 580-211336/2-A
Matrix: Water
Analysis Batch: 211358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.05		mg/L		102	90 - 110

Lab Sample ID: MB 580-211337/1-A
Matrix: Water
Analysis Batch: 211360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/15/16 13:30	02/15/16 13:30	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-211337/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211360 — **Prep Batch: 211337**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	1.97		mg/L		99	90 - 110		

Lab Sample ID: 580-57130-3 MS — **Client Sample ID: 0216-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211360 — **Prep Batch: 211337**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND		2.00	1.95		mg/L		95	90 - 110		

Lab Sample ID: 580-57130-3 MSD — **Client Sample ID: 0216-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211360 — **Prep Batch: 211337**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.01		mg/L		97	90 - 110	3	20

Lab Sample ID: 580-57130-3 DU — **Client Sample ID: 0216-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211360 — **Prep Batch: 211337**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 320-102068/15 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 102068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			03/01/16 15:21	1

Lab Sample ID: LCS 320-102068/16 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 102068

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	0.993		mg/L		99	90 - 110		

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-211235/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	102		mg/L		102	85 - 115		

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 580-57130-2 DU
Matrix: Water
Analysis Batch: 211235

Client Sample ID: 0216-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	380			382		mg/L				0.5	17
Bicarbonate Alkalinity as CaCO3	380			382		mg/L				0.5	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Lab Sample ID: LCS 580-211236/2
Matrix: Water
Analysis Batch: 211236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	98.6		mg/L		99	85 - 115		

Lab Sample ID: 580-57130-12 DU
Matrix: Water
Analysis Batch: 211236

Client Sample ID: 0216-36
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	300			300		mg/L				1	17
Bicarbonate Alkalinity as CaCO3	300			300		mg/L				1	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-211100/1
Matrix: Water
Analysis Batch: 211100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			02/10/16 21:00	1

Lab Sample ID: LCS 580-211100/2
Matrix: Water
Analysis Batch: 211100

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			1000	1010		mg/L		101	80 - 120		

Lab Sample ID: 580-57130-1 DU
Matrix: Water
Analysis Batch: 211100

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	500			485		mg/L				2	20

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 580-57130-11 DU — **Client Sample ID: 0216-35**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211100

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	690			691		mg/L				0.7	20

Lab Sample ID: MB 580-211101/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211101

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			02/10/16 22:00	1

Lab Sample ID: LCS 580-211101/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211101

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	962		mg/L		96	80 - 120		

Lab Sample ID: 580-57130-13 DU — **Client Sample ID: 0216-37**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211101

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	300			290		mg/L				2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-211385/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211406 — **Prep Batch: 211385**

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		02/16/16 11:30	02/16/16 11:30	1

Lab Sample ID: LCS 580-211385/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211406 — **Prep Batch: 211385**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	75.5		mg/L		101	80 - 120		

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-211424/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/16/16 10:31	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-211424/2
Matrix: Water
Analysis Batch: 211424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.1		mg/L		101	85 - 115

Lab Sample ID: 580-57130-1 MS
Matrix: Water
Analysis Batch: 211424

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.2		10.0	12.0		mg/L		98	85 - 115

Lab Sample ID: 580-57130-1 MSD
Matrix: Water
Analysis Batch: 211424

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.2		10.0	12.1		mg/L		100	85 - 115	1	20

Lab Sample ID: 580-57130-1 DU
Matrix: Water
Analysis Batch: 211424

Client Sample ID: 0216-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.2		2.18		mg/L		0.7	20

Lab Sample ID: MB 580-211425/1
Matrix: Water
Analysis Batch: 211425

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/16/16 16:56	1

Lab Sample ID: LCS 580-211425/2
Matrix: Water
Analysis Batch: 211425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.5		mg/L		105	85 - 115

Lab Sample ID: 580-57130-11 MS
Matrix: Water
Analysis Batch: 211425

Client Sample ID: 0216-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.2		10.0	12.1		mg/L		99	85 - 115

Lab Sample ID: 580-57130-11 MSD
Matrix: Water
Analysis Batch: 211425

Client Sample ID: 0216-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.2		10.0	12.9		mg/L		107	85 - 115	6	20

QC Sample Results

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Lab Sample ID: 580-57130-11 DU
Matrix: Water
Analysis Batch: 211425

Client Sample ID: 0216-35
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	2.2			2.38		mg/L				6	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-19

Date Collected: 02/03/16 09:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211349	02/16/16 16:04	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 15:43	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 15:57	JCB	TAL SL
Dissolved	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Dissolved	Analysis	6010C		1	211527	02/17/16 17:40	HJM	TAL SEA
Total Recoverable	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Total Recoverable	Analysis	6020A		1	211509	02/17/16 09:57	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:25	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Client Sample ID: 0216-21

Date Collected: 02/03/16 09:55
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211349	02/16/16 16:31	TL1	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 17:04	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 17:17	JCB	TAL SL
Dissolved	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Dissolved	Analysis	6010C		1	211527	02/17/16 17:44	HJM	TAL SEA
Total Recoverable	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Total Recoverable	Analysis	6020A		1	211509	02/17/16 10:01	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211358	02/15/16 14:00	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211336	02/15/16 14:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:31	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-23

Date Collected: 02/03/16 11:48
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 14:07	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 17:31	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 17:44	JCB	TAL SL
Dissolved	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Dissolved	Analysis	6010C		1	211527	02/17/16 17:47	HJM	TAL SEA
Total Recoverable	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Total Recoverable	Analysis	6020A		1	211509	02/17/16 10:06	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:33	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Client Sample ID: 0216-25

Date Collected: 02/03/16 12:56
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 14:34	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 18:24	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 18:38	JCB	TAL SL
Dissolved	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Dissolved	Analysis	6010C		1	211527	02/17/16 17:50	HJM	TAL SEA
Total Recoverable	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Total Recoverable	Analysis	6020A		1	211509	02/17/16 10:10	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:35	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-26

Date Collected: 02/03/16 14:12
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 15:01	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 18:51	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 19:05	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:14	HJM	TAL SEA
Total Recoverable	Prep	3005A			211106	02/11/16 10:47	DCC	TAL SEA
Total Recoverable	Analysis	6020A		1	211509	02/17/16 10:15	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		2	102068	03/01/16 16:22	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Client Sample ID: 0216-27

Date Collected: 02/03/16 14:31
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 15:28	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 19:18	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 19:31	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:18	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 20:48	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:39	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-28

Date Collected: 02/03/16 16:05
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 15:55	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 19:45	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 19:58	JCB	TAL SL
Total/NA	Analysis	300.0	DL2	100	238092	02/26/16 20:12	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:21	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 20:53	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:47	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Client Sample ID: 0216-29

Date Collected: 02/03/16 15:30
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 16:22	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 20:52	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 21:05	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:24	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 20:57	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		2	102068	03/01/16 16:24	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-31

Date Collected: 02/04/16 08:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 16:49	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 21:19	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 21:32	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:27	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 21:02	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		5	102068	03/01/16 16:26	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Client Sample ID: 0216-33

Date Collected: 02/04/16 10:33
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 17:16	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 21:59	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 22:12	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:31	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 21:07	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		2	102068	03/01/16 16:28	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211424	02/16/16 10:31	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-35

Date Collected: 02/04/16 10:53
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 17:43	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 23:06	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/26/16 23:20	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:34	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 21:11	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		2	102068	03/01/16 16:30	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211235	02/12/16 20:01	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211100	02/10/16 21:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211425	02/16/16 16:56	RSB	TAL SEA

Client Sample ID: 0216-36

Date Collected: 02/04/16 11:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 18:10	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/26/16 23:46	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/27/16 00:00	JCB	TAL SL
Dissolved	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211272	02/12/16 15:37	HJM	TAL SEA
Total Recoverable	Prep	3005A			211150	02/11/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211367	02/15/16 21:16	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:57	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211236	02/12/16 20:03	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211425	02/16/16 16:56	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Client Sample ID: 0216-37
Date Collected: 02/04/16 13:10
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211444	02/17/16 18:37	D1R	TAL SEA
Total/NA	Analysis	300.0		1	238092	02/27/16 00:13	JCB	TAL SL
Total/NA	Analysis	300.0	DL	20	238092	02/27/16 00:27	JCB	TAL SL
Dissolved	Prep	3005A			211321	02/15/16 15:20	MKN	TAL SEA
Dissolved	Analysis	6010C		1	211396	02/16/16 13:35	HJM	TAL SEA
Total Recoverable	Prep	3005A			211321	02/15/16 15:20	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	211423	02/16/16 19:11	FCW	TAL SEA
Total/NA	Analysis	350.1		1	211360	02/15/16 13:30	JLS	TAL SEA
Total/NA	Prep	Distill/Ammonia			211337	02/15/16 13:30	JSM	TAL SEA
Total/NA	Analysis	353.2		1	102068	03/01/16 15:59	JCB	TAL SAC
Total/NA	Analysis	SM 2320B		1	211236	02/12/16 20:03	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	211101	02/10/16 22:00	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	211406	02/16/16 11:30	JLS	TAL SEA
Total/NA	Prep	SM 5220			211385	02/16/16 11:30	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	211425	02/16/16 16:56	RSB	TAL SEA

Client Sample ID: 0216-98
Date Collected: 02/03/16 12:50
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211349	02/16/16 17:26	TL1	TAL SEA

Client Sample ID: 0216-100
Date Collected: 02/03/16 13:38
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211349	02/16/16 16:58	TL1	TAL SEA

Client Sample ID: Trip Blank
Date Collected: 02/03/16 00:00
Date Received: 02/05/16 12:00

Lab Sample ID: 580-57130-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	211349	02/16/16 12:01	TL1	TAL SEA

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Alkalinity
SM 5310B		Water	Total Organic Carbon

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Acrylonitrile
8260B		Water	Benzene
8260B		Water	Bromochloromethane
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Ethylbenzene
8260B		Water	m,p-Xylene
8260B		Water	Methyl iodide
8260B		Water	Methylene Chloride
8260B		Water	o-Xylene
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene

Certification Summary

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	trans-1,4-Dichloro-2-butene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl acetate
8260B		Water	Vinyl chloride
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Laboratory: TestAmerica Sacramento

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		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-17
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-17
Virginia	NELAP Secondary AB	3	460278	03-14-16 *
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-Q	01-29-16 *

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Laboratory: TestAmerica St. Louis (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
California	ELAP	9	2886	03-31-16 *
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-10-16 *
Louisiana	NELAP	6	04080	06-30-16
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-16 *
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

Sample Summary

Client: SCS Engineers
Project/Site: Island County, WA

TestAmerica Job ID: 580-57130-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-57130-1	0216-19	Water	02/03/16 09:53	02/05/16 12:00
580-57130-2	0216-21	Water	02/03/16 09:55	02/05/16 12:00
580-57130-3	0216-23	Water	02/03/16 11:48	02/05/16 12:00
580-57130-4	0216-25	Water	02/03/16 12:56	02/05/16 12:00
580-57130-5	0216-26	Water	02/03/16 14:12	02/05/16 12:00
580-57130-6	0216-27	Water	02/03/16 14:31	02/05/16 12:00
580-57130-7	0216-28	Water	02/03/16 16:05	02/05/16 12:00
580-57130-8	0216-29	Water	02/03/16 15:30	02/05/16 12:00
580-57130-9	0216-31	Water	02/04/16 08:53	02/05/16 12:00
580-57130-10	0216-33	Water	02/04/16 10:33	02/05/16 12:00
580-57130-11	0216-35	Water	02/04/16 10:53	02/05/16 12:00
580-57130-12	0216-36	Water	02/04/16 11:50	02/05/16 12:00
580-57130-13	0216-37	Water	02/04/16 13:10	02/05/16 12:00
580-57130-14	0216-98	Water	02/03/16 12:50	02/05/16 12:00
580-57130-15	0216-100	Water	02/03/16 13:38	02/05/16 12:00
580-57130-16	Trip Blank	Water	02/03/16 00:00	02/05/16 12:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Sam Graber	2/5/16	26623
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
2405 140th Ave. NE, Suite 107	(612) 940-2980		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Sarah Murphy	
Project Name and Location (State)	**Billing Contact**		
Island County, WA			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: COD	Alk as CaCO3	Total Metals	Dissolved Metals	Ammonia	TOC	VOCs	TDS	Cl, F, SO4	Nitrate
0216-19	2/3/16	953		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X
0216-21	↓	955		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0216-23		1148																				
0216-25		1256																				
0216-26		1412																				
0216-27		1431																				
0216-28		1605																				
0216-~~29~~ 29	↓	1530																				
0216-31	2/4/16	853																				
0216-33	↓	1033																				
0216-35		1053																				
0216-36	↓	1150		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Special Instructions/ Conditions of Receipt

Cooler
☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Graber	2/5/16	800	Francisco Luna, Jr	2/5/16	1200
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print		Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

580-57130 Chain of Custody

TAL-8274-580 (0210)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Sam Graber	2/5/16	26624
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2405 140th Ave NE, Suite 107	(612) 990-2980		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Sarah Murphy	
Project Name and Location (State)	**Billing Contact**		
Island County			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alks or HCO3/CO3	Total Metals	Dissolved Metals	Ammonia	TOC	VOCs	TDS	Cl, F, SO4	Nitrate	Special Instructions/ Conditions of Receipt
0216-37	2/4/16	1310		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X	
0216-98	2/3/16	1250		↓			0	0	0	3									X				
0216-100	2/3/16	1338		↓			0	0	0	3									X				
Trip blank *	—	—		↓			0	0	0	6									X				* Please only run one trip blank

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: _____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Sam Graber	2/5/16	800	Francisco Luna, Jr	2/5/16	1200
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TB A2 Cooler ___ Cor 1.8°C Unc 1.6°C
Cooler Dsc Lg Blue/white @Lab 1350
Wet/Packs Packing Bubble

TB A2 Cooler ___ Cor 2.3°C Unc 2.1°C
Cooler Dsc Lg Red/white @Lab 1350
Wet/Packs Packing Bubble

TB A2 Cooler ___ Cor 1.5°C Unc 1.3°C
Cooler Dsc Lg Blue/white @Lab 1356
Wet/Packs Packing Bubble

TB A2 Cooler ___ Cor 1.4°C Unc 1.2°C
Cooler Dsc Lg Blue/white @Lab 1350
Wet/Packs Packing Bubble

TB A2 Cooler ___ Cor 5.4°C Unc 5.7°C
Cooler Dsc Lg Blue/white @Lab 1350
Wet/Packs Packing Bubble

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone:(253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-36187.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 580-57130-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/17/2016			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:				
Project Name: Island County, WA	Project #: 58009563			
Site:	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
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 - Client ID (Lab ID)	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)	300_ORGFM_28D/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-19 (580-57130-1)	2/3/16	09:53 Pacific		Water			X	1	
0216-21 (580-57130-2)	2/3/16	09:55 Pacific		Water			X	1	
0216-23 (580-57130-3)	2/3/16	11:48 Pacific		Water			X	1	
0216-25 (580-57130-4)	2/3/16	12:56 Pacific		Water			X	1	
0216-26 (580-57130-5)	2/3/16	14:12 Pacific		Water			X	1	
0216-27 (580-57130-6)	2/3/16	14:31 Pacific		Water			X	1	
0216-28 (580-57130-7)	2/3/16	16:05 Pacific		Water			X	1	
0216-29 (580-57130-8)	2/3/16	15:30 Pacific		Water			X	1	
0216-31 (580-57130-9)	2/4/16	08:53 Pacific		Water			X	1	
0216-33 (580-57130-10)	2/4/16	10:33 Pacific		Water			X	1	
0216-35 (580-57130-11)	2/4/16	10:53 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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
Brandon A. Gall	2/22/16	SEATA		2/25/16 0910	TA-SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-36187.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 580-57130-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/17/2016			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Island County, WA	Project #: 58009563			
Site:	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
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 - Client ID (Lab ID)	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)	300_ORGFM_28D/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-36 (580-57130-12)	2/4/16	11:50 Pacific		Water			X	1	
0216-37 (580-57130-13)	2/4/16	13:10 Pacific		Water			X	1	

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *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: Brandon A. Call	Date/Time: 2/22/16	Company SEATA	Received by:	Date/Time: 2/25/16 0910	Company TASEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-36183.1
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 580-57130-1
Address: 880 Riverside Parkway,	Due Date Requested: 2/17/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Island County, WA	Project #: 58009563			
Site	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
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 - Client ID (Lab ID)	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 Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-19 (580-57130-1)	2/3/16	09 53 Pacific		Water			X	1	
0216-21 (580-57130-2)	2/3/16	09 55 Pacific		Water			X	1	
0216-23 (580-57130-3)	2/3/16	11 48 Pacific		Water			X	1	
0216-25 (580-57130-4)	2/3/16	12 56 Pacific		Water			X	1	
0216-26 (580-57130-5)	2/3/16	14 12 Pacific		Water			X	1	
0216-27 (580-57130-6)	2/3/16	14 31 Pacific		Water			X	1	
0216-28 (580-57130-7)	2/3/16	16 05 Pacific		Water			X	1	
0216-29 (580-57130-8)	2/3/16	15 30 Pacific		Water			X	1	
0216-31 (580-57130-9)	2/4/16	08 53 Pacific		Water			X	1	
0216-33 (580-57130-10)	2/4/16	10 33 Pacific		Water			X	1	
0216-35 (580-57130-11)	2/4/16	10 53 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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: Brandon A. Hall Brandon A. Hall	Date/Time: 2/22/16	Company: SEA TA	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	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

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-36183 2
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah murphy@testamericainc com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc				Job #: 580-57130-1
Address: 880 Riverside Parkway,	Due Date Requested: 2/17/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Island County, WA	Project #: 58009563			
Site	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 - Client ID (Lab ID)	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)	353.2/ Nitrate Nitrite Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
0216-36 (580-57130-12)	2/4/16	11:50 Pacific		Water		X	1	
0216-37 (580-57130-13)	2/4/16	13.10 Pacific		Water		X	1	

Possible Hazard Identification
Unconfirmed

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
Brandon A. Hall Brandon A. Hall	2/22/16	SEATA			
Relinquished by	Date/Time	Company	Received by	Date/Time	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

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-36299.1
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah murphy@testamericainc com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc				Job #: 580-57130-1
Address: 880 Riverside Parkway,	Due Date Requested: 2/17/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email	WO #:			
Project Name: Island County, WA	Project #: 58009563			
Site	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
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 - Client ID (Lab ID)	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 Only	Total Number of Containers	Special Instructions/Note:
			Preservation Code						
0216-19 (580-57130-1)	2/3/16	09 53 Pacific		Water			X	1	
0216-21 (580-57130-2)	2/3/16	09 55 Pacific		Water			X	1	
0216-23 (580-57130-3)	2/3/16	11 48 Pacific		Water			X	1	
0216-25 (580-57130-4)	2/3/16	12 56 Pacific		Water			X	1	
0216-26 (580-57130-5)	2/3/16	14:12 Pacific		Water			X	1	
0216-27 (580-57130-6)	2/3/16	14.31 Pacific		Water			X	1	
0216-28 (580-57130-7)	2/3/16	16:05 Pacific		Water			X	1	
0216-29 (580-57130-8)	2/3/16	15 30 Pacific		Water			X	1	
0216-31 (580-57130-9)	2/4/16	08:53 Pacific		Water			X	1	
0216-33 (580-57130-10)	2/4/16	10:33 Pacific		Water			X	1	
0216-35 (580-57130-11)	2/4/16	10:53 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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	Tony Blount	2/24/16	TA-Sea		2/25/16 1015	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time 0-7	Company

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3/3/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-36299 2
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah murphy@testamericainc com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc				Job #: 580-57130-1

Address	Due Date Requested:	Analysis Requested	Preservation Codes:
880 Riverside Parkway, ,	2/17/2016		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)
City: West Sacramento	TAT Requested (days):		
State, Zip: CA, 95605			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #		
Email	WO #		
Project Name: Island County, WA	Project #: 58009563		
Site	SSOW#		

Sample Identification - Client ID (Lab ID)	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 Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0216-36 (580-57130-12)	2/4/16	11.50 Pacific		Water			X	1	
0216-37 (580-57130-13)	2/4/16	13.10 Pacific		Water			X	1	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ 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	Tom	2/24/16			2/25/16 1005	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	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: 0.7

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57130-1

Login Number: 57130
List Number: 1
Creator: Torres, Terri L

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57130-1

Login Number: 57130
List Number: 2
Creator: Sadler, Jeremy

List Source: TestAmerica Sacramento
List Creation: 02/23/16 11:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-57130-1

Login Number: 57130
List Number: 3
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis
List Creation: 02/25/16 09:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 2Q 2016

Project Details

Project No.	04207033.09	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Graber	**Data Level**	Level II
Date	6/2/16	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-59160-1	Samples Arrived in good condition	Test America
580-59194-1	Samples Arrived in good condition	Test America

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-59160-1	x	x	x	x	x	x	
580-59194-1	x	x	x	x	x	x	x

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-59160-1, 580-59194-1)
LCS/LCSD	Acceptable	See case narrative (580-59160-1, 580-59194-1)
Duplicates	Acceptable	See case narrative (580-59160-1, 580-59194-1)
MS/MSD	Acceptable	See case narrative (580-59160-1, 580-59194-1)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S**	**C1S-Dup**	**RPD (%)**	**N3D**	**N3D-Dup**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.52	0.52	0.00	–	–	–
Alkalinity	mg/L	470	470	0.00	240	240	0.00
Arsenic	mg/L	0.0017	0.0018	5.71	0.0081	0.0081	0.00
Barium	mg/L	0.058	0.058	0.00	0.029	0.029	0.00
Bicarbonate Alkalinity as CaCO3	mg/L	470	470	0.00	240	240	0.00
Calcium	mg/L	190	190	0.00	70	69	1.44
Chemical Oxygen Demand	mg/L	19	15	23.53	–	–	–
Chloride	mg/L	7.9	8	1.26	37	38	2.67
Chromium	mg/L	0.01	0.0099	1.01	–	–	–
cis-1,2-Dichloroethene	ug/L	0.37	0.46	21.69	–	–	–
Copper	mg/L	0.0032	0.0035	8.96	–	–	–

Duplicate Evaluation							
Analyte	**Units**	**C1S**	**C1S-Dup**	**RPD (%)**	**N3D**	**N3D-Dup**	**RPD (%)**
Magnesium	mg/L	77	75	2.63	26	25	3.92
Manganese	mg/L	–	–	–	0.026	0.027	3.77
Nickel	mg/L	0.0097	0.0099	2.04	–	–	–
Nitrate Nitrite as N	mg/L	7	7.2	2.82	–	–	–
Potassium	mg/L	6.5	6.4	1.55	6.1	6	1.65
Sodium	mg/L	32	31	3.17	21	21	0.00
Sulfate	mg/L	340	340	0.00	25	24	4.08
Total Dissolved Solids	mg/L	1100	1100	0.00	380	380	0.00
Total Organic Carbon	mg/L	9	9.2	2.20	ND	1	2.00
Trichloroethene	ug/L	0.21	0.25	17.39	–	–	–
Trichlorofluoromethane	ug/L	4.8	4.4	8.70	–	–	–

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
X	Surrogate outside control limits	580-59194-1
*	LCS or LCSD is outside acceptance limits.	580-59160-1, 580-59194-1
*	RPD of the LCS and LCSD exceed the control limits	580-59160-1, 580-59194-1
F1	MS and/or MSD Recovery is outside acceptance limits.	580-59160-1, 580-59194-1
J	Results is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	580-59194-1
4	MS,MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable	580-59160-1, 580-59194-1

Qualified Data and Usability

Sample analyses with elevated RPDs (greater than 20 percent) are samples collected for unfiltered metals where variation in particulates may impact reproducibility across samples or samples were the target analyte was detected at concentrations less than 5 times the Practical Quantification Limit.

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-59160-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
5/11/2016 4:02:39 PM

Sarah Murphy, Project Manager I
(253)922-2310
sarah.murphy@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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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Job ID: 580-59160-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 4/27/2016 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.6º C, 3.4º C, 4.3º C, 5.7º C and 6.4º C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 580-216282 recovered outside acceptance criteria, low biased, for Ethylbenzene and 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 216282 recovered outside control limits for the following analytes: o-Xylene, 2-Butanone (MEK) and Vinyl acetate.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 580-216282 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 216372 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane.

Method(s) 8260B: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with analytical batch 580-216725: 1,2,3-Trichloropropane (LCS only), 1,1,2-Trichloroethane (LCSD only) and Ethylene Dibromide (LCSD only). The samples were non-detects for the affected analyte. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 353.2: The following samples were diluted to bring the concentration of target analytes within the calibration range: 0416-21 (580-59160-1), 0416-16 (580-59160-5), 0416-13 (580-59160-8), 0416-30 (580-59160-9), 0416-19 (580-59160-10), 0416-31 (580-59160-11), 0416-23 (580-59160-12) and 0416-22 (580-59160-13). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client Sample ID: 0416-21
Date Collected: 04/25/16 10:37
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 20:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/16 20:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 20:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/16 20:59	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/16 20:59	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/16 20:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/16 20:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/16 20:59	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/16 20:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/16 20:59	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/16 20:59	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/16 20:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/16 20:59	1
2-Butanone	ND	*	15		ug/L			05/03/16 20:59	1
2-Hexanone	ND		2.0		ug/L			05/03/16 20:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/16 20:59	1
Acetone	ND		2.0		ug/L			05/03/16 20:59	1
Acrylonitrile	ND		5.0		ug/L			05/03/16 20:59	1
Benzene	ND		0.20		ug/L			05/03/16 20:59	1
Bromochloromethane	ND		0.20		ug/L			05/03/16 20:59	1
Bromodichloromethane	ND		0.20		ug/L			05/03/16 20:59	1
Bromoform	ND		0.50		ug/L			05/03/16 20:59	1
Bromomethane	ND		1.0		ug/L			05/03/16 20:59	1
Carbon disulfide	ND		0.20		ug/L			05/03/16 20:59	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/16 20:59	1
Chlorobenzene	ND		0.20		ug/L			05/03/16 20:59	1
Chloroethane	ND		0.50		ug/L			05/03/16 20:59	1
Chloroform	ND		0.20		ug/L			05/03/16 20:59	1
Chloromethane	ND		0.30		ug/L			05/03/16 20:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 20:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/16 20:59	1
Dibromochloromethane	ND		0.20		ug/L			05/03/16 20:59	1
Dibromomethane	ND		0.20		ug/L			05/03/16 20:59	1
m,p-Xylene	**0.81**		0.50		ug/L			05/03/16 20:59	1
Methyl iodide	ND		0.50		ug/L			05/03/16 20:59	1
Methylene Chloride	ND		0.50		ug/L			05/03/16 20:59	1
Styrene	ND		0.50		ug/L			05/03/16 20:59	1
Tetrachloroethene	ND		0.50		ug/L			05/03/16 20:59	1
Toluene	ND		0.20		ug/L			05/03/16 20:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 20:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/16 20:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/16 20:59	1
Trichloroethene	ND		0.20		ug/L			05/03/16 20:59	1
Trichlorofluoromethane	**1.0**		0.50		ug/L			05/03/16 20:59	1
Vinyl acetate	ND	*	1.0		ug/L			05/03/16 20:59	1
Vinyl chloride	ND		0.020		ug/L			05/03/16 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 128*		*05/03/16 20:59*	*1*

Client Sample ID: 0416-21
Date Collected: 04/25/16 10:37
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/03/16 20:59*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*05/03/16 20:59*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/03/16 20:59*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 127*		*05/03/16 20:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.20		ug/L			05/04/16 12:53	1
o-Xylene	ND		0.50		ug/L			05/04/16 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*05/04/16 12:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*05/04/16 12:53*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/04/16 12:53*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/04/16 12:53*	*1*
Trifluorotoluene (Surr)	*92*		*80 - 127*		*05/04/16 12:53*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		05/03/16 15:05	05/04/16 14:05	1
Iron	ND		0.30		mg/L		05/03/16 15:05	05/04/16 14:05	1
Magnesium	**48**		1.1		mg/L		05/03/16 15:05	05/04/16 14:05	1
Manganese	ND		0.020		mg/L		05/03/16 15:05	05/04/16 14:05	1
Potassium	**6.2**		3.3		mg/L		05/03/16 15:05	05/04/16 14:05	1
Sodium	**27**		2.0		mg/L		05/03/16 15:05	05/04/16 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Arsenic	**0.0027**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:58	1
Barium	**0.036**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:58	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Chromium	**0.011**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:58	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 18:58	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:58	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:58	1
Vanadium	**0.0057**		0.0040		mg/L		05/02/16 10:47	05/03/16 18:58	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 14:15	1
Chloride	**40**		0.90		mg/L			05/09/16 14:15	1
Sulfate	**45**		1.2		mg/L			05/09/16 14:15	1
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-21
Date Collected: 04/25/16 10:37
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	**5.9**		0.50		mg/L			05/06/16 14:24	10
Total Organic Carbon	**1.1**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**440**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**440**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**640**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-32
Date Collected: 04/25/16 11:45
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 21:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/16 21:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 21:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/16 21:25	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/16 21:25	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/16 21:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/16 21:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/16 21:25	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/16 21:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/16 21:25	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/16 21:25	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/16 21:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/16 21:25	1
2-Butanone	ND	*	15		ug/L			05/03/16 21:25	1
2-Hexanone	ND		2.0		ug/L			05/03/16 21:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/16 21:25	1
Acetone	ND		2.0		ug/L			05/03/16 21:25	1
Acrylonitrile	ND		5.0		ug/L			05/03/16 21:25	1
Benzene	ND		0.20		ug/L			05/03/16 21:25	1
Bromochloromethane	ND		0.20		ug/L			05/03/16 21:25	1
Bromodichloromethane	ND		0.20		ug/L			05/03/16 21:25	1
Bromoform	ND		0.50		ug/L			05/03/16 21:25	1
Bromomethane	ND		1.0		ug/L			05/03/16 21:25	1
Carbon disulfide	ND		0.20		ug/L			05/03/16 21:25	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/16 21:25	1
Chlorobenzene	ND		0.20		ug/L			05/03/16 21:25	1
Chloroethane	ND		0.50		ug/L			05/03/16 21:25	1
Chloroform	ND		0.20		ug/L			05/03/16 21:25	1
Chloromethane	ND		0.30		ug/L			05/03/16 21:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 21:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/16 21:25	1
Dibromochloromethane	ND		0.20		ug/L			05/03/16 21:25	1
Dibromomethane	ND		0.20		ug/L			05/03/16 21:25	1
Ethylbenzene	ND		0.20		ug/L			05/03/16 21:25	1
m,p-Xylene	ND		0.50		ug/L			05/03/16 21:25	1
Methyl iodide	ND		0.50		ug/L			05/03/16 21:25	1
Methylene Chloride	ND		0.50		ug/L			05/03/16 21:25	1
o-Xylene	ND	*	0.50		ug/L			05/03/16 21:25	1
Styrene	ND		0.50		ug/L			05/03/16 21:25	1
Tetrachloroethene	ND		0.50		ug/L			05/03/16 21:25	1
Toluene	ND		0.20		ug/L			05/03/16 21:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 21:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/16 21:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/16 21:25	1
Trichloroethene	ND		0.20		ug/L			05/03/16 21:25	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/16 21:25	1
Vinyl acetate	ND	*	1.0		ug/L			05/03/16 21:25	1
Vinyl chloride	ND		0.020		ug/L			05/03/16 21:25	1

Client Sample ID: 0416-32
Date Collected: 04/25/16 11:45
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 128*		*05/03/16 21:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*05/03/16 21:25*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/03/16 21:25*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*05/03/16 21:25*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 127*		*05/03/16 21:25*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		05/03/16 15:05	05/04/16 14:33	1
Iron	ND		0.30		mg/L		05/03/16 15:05	05/04/16 14:33	1
Magnesium	**25**		1.1		mg/L		05/03/16 15:05	05/04/16 14:33	1
Manganese	**0.027**		0.020		mg/L		05/03/16 15:05	05/04/16 14:33	1
Potassium	**6.0**		3.3		mg/L		05/03/16 15:05	05/04/16 14:33	1
Sodium	**21**		2.0		mg/L		05/03/16 15:05	05/04/16 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Arsenic	**0.0081**		0.0010		mg/L		05/02/16 10:47	05/03/16 19:03	1
Barium	**0.029**		0.0012		mg/L		05/02/16 10:47	05/03/16 19:03	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 19:03	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 19:03	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 19:03	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 19:03	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 19:03	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 14:29	1
Chloride	**38**		0.90		mg/L			05/09/16 14:29	1
Sulfate	**24**		1.2		mg/L			05/09/16 14:29	1
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:26	1
Total Organic Carbon	**1.0**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**380**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-15
Date Collected: 04/25/16 12:58
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 21:51	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/16 21:51	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 21:51	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/16 21:51	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/16 21:51	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/16 21:51	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/16 21:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/16 21:51	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/16 21:51	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/16 21:51	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/16 21:51	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/16 21:51	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/16 21:51	1
2-Butanone	ND	*	15		ug/L			05/03/16 21:51	1
2-Hexanone	ND		2.0		ug/L			05/03/16 21:51	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/16 21:51	1
Acetone	ND		2.0		ug/L			05/03/16 21:51	1
Acrylonitrile	ND		5.0		ug/L			05/03/16 21:51	1
Benzene	ND		0.20		ug/L			05/03/16 21:51	1
Bromochloromethane	ND		0.20		ug/L			05/03/16 21:51	1
Bromodichloromethane	ND		0.20		ug/L			05/03/16 21:51	1
Bromoform	ND		0.50		ug/L			05/03/16 21:51	1
Bromomethane	ND		1.0		ug/L			05/03/16 21:51	1
Carbon disulfide	ND		0.20		ug/L			05/03/16 21:51	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/16 21:51	1
Chlorobenzene	ND		0.20		ug/L			05/03/16 21:51	1
Chloroethane	ND		0.50		ug/L			05/03/16 21:51	1
Chloroform	ND		0.20		ug/L			05/03/16 21:51	1
Chloromethane	ND		0.30		ug/L			05/03/16 21:51	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 21:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/16 21:51	1
Dibromochloromethane	ND		0.20		ug/L			05/03/16 21:51	1
Dibromomethane	ND		0.20		ug/L			05/03/16 21:51	1
Ethylbenzene	ND		0.20		ug/L			05/03/16 21:51	1
m,p-Xylene	ND		0.50		ug/L			05/03/16 21:51	1
Methyl iodide	ND		0.50		ug/L			05/03/16 21:51	1
Methylene Chloride	ND		0.50		ug/L			05/03/16 21:51	1
o-Xylene	ND	*	0.50		ug/L			05/03/16 21:51	1
Styrene	ND		0.50		ug/L			05/03/16 21:51	1
Tetrachloroethene	ND		0.50		ug/L			05/03/16 21:51	1
Toluene	ND		0.20		ug/L			05/03/16 21:51	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 21:51	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/16 21:51	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/16 21:51	1
Trichloroethene	ND		0.20		ug/L			05/03/16 21:51	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/16 21:51	1
Vinyl acetate	ND	*	1.0		ug/L			05/03/16 21:51	1
Vinyl chloride	ND		0.020		ug/L			05/03/16 21:51	1

Client Sample ID: 0416-15
Date Collected: 04/25/16 12:58
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*05/03/16 21:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*05/03/16 21:51*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/03/16 21:51*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/03/16 21:51*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*05/03/16 21:51*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		05/03/16 15:05	05/04/16 14:36	1
Iron	**0.34**		0.30		mg/L		05/03/16 15:05	05/04/16 14:36	1
Magnesium	**99**		1.1		mg/L		05/03/16 15:05	05/04/16 14:36	1
Manganese	**0.25**		0.020		mg/L		05/03/16 15:05	05/04/16 14:36	1
Potassium	**10**		3.3		mg/L		05/03/16 15:05	05/04/16 14:36	1
Sodium	**46**		2.0		mg/L		05/03/16 15:05	05/04/16 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Arsenic	**0.0053**		0.0010		mg/L		05/02/16 09:52	05/03/16 14:27	1
Barium	**0.11**		0.0012		mg/L		05/02/16 09:52	05/03/16 14:27	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Chromium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Copper	**0.0023**		0.0020		mg/L		05/02/16 09:52	05/03/16 14:27	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Nickel	**0.0090**		0.0030		mg/L		05/02/16 09:52	05/03/16 14:27	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 14:27	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 14:27	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 14:27	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 14:44	1
Chloride	**130**		9.0		mg/L			05/10/16 10:41	10
Sulfate	**150**		12		mg/L			05/10/16 10:41	10
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:28	1
Total Organic Carbon	**3.9**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		5.0		mg/L			05/03/16 20:57	1
Bicarbonate Alkalinity as CaCO3	**490**		5.0		mg/L			05/03/16 20:57	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Total Dissolved Solids	**910**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-20
Date Collected: 04/25/16 11:35
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 22:18	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/16 22:18	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 22:18	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/16 22:18	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/16 22:18	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/16 22:18	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/16 22:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/16 22:18	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/16 22:18	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/16 22:18	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/16 22:18	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/16 22:18	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/16 22:18	1
2-Butanone	ND	*	15		ug/L			05/03/16 22:18	1
2-Hexanone	ND		2.0		ug/L			05/03/16 22:18	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/16 22:18	1
Acetone	ND		2.0		ug/L			05/03/16 22:18	1
Acrylonitrile	ND		5.0		ug/L			05/03/16 22:18	1
Benzene	ND		0.20		ug/L			05/03/16 22:18	1
Bromochloromethane	ND		0.20		ug/L			05/03/16 22:18	1
Bromodichloromethane	ND		0.20		ug/L			05/03/16 22:18	1
Bromoform	ND		0.50		ug/L			05/03/16 22:18	1
Bromomethane	ND		1.0		ug/L			05/03/16 22:18	1
Carbon disulfide	ND		0.20		ug/L			05/03/16 22:18	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/16 22:18	1
Chlorobenzene	ND		0.20		ug/L			05/03/16 22:18	1
Chloroethane	ND		0.50		ug/L			05/03/16 22:18	1
Chloroform	ND		0.20		ug/L			05/03/16 22:18	1
Chloromethane	ND		0.30		ug/L			05/03/16 22:18	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 22:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/16 22:18	1
Dibromochloromethane	ND		0.20		ug/L			05/03/16 22:18	1
Dibromomethane	ND		0.20		ug/L			05/03/16 22:18	1
Ethylbenzene	ND		0.20		ug/L			05/03/16 22:18	1
m,p-Xylene	ND		0.50		ug/L			05/03/16 22:18	1
Methyl iodide	ND		0.50		ug/L			05/03/16 22:18	1
Methylene Chloride	ND		0.50		ug/L			05/03/16 22:18	1
o-Xylene	ND	*	0.50		ug/L			05/03/16 22:18	1
Styrene	ND		0.50		ug/L			05/03/16 22:18	1
Tetrachloroethene	ND		0.50		ug/L			05/03/16 22:18	1
Toluene	ND		0.20		ug/L			05/03/16 22:18	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 22:18	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/16 22:18	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/16 22:18	1
Trichloroethene	ND		0.20		ug/L			05/03/16 22:18	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/16 22:18	1
Vinyl acetate	ND	*	1.0		ug/L			05/03/16 22:18	1
Vinyl chloride	ND		0.020		ug/L			05/03/16 22:18	1

Client Sample ID: 0416-20
Date Collected: 04/25/16 11:35
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 128*		*05/03/16 22:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/03/16 22:18*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*05/03/16 22:18*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/03/16 22:18*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*05/03/16 22:18*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**70**		1.1		mg/L		05/03/16 15:05	05/04/16 14:39	1
Iron	ND		0.30		mg/L		05/03/16 15:05	05/04/16 14:39	1
Magnesium	**26**		1.1		mg/L		05/03/16 15:05	05/04/16 14:39	1
Manganese	**0.026**		0.020		mg/L		05/03/16 15:05	05/04/16 14:39	1
Potassium	**6.1**		3.3		mg/L		05/03/16 15:05	05/04/16 14:39	1
Sodium	**21**		2.0		mg/L		05/03/16 15:05	05/04/16 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Arsenic	**0.0081**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:07	1
Barium	**0.029**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:07	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Chromium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Copper	ND		0.0020		mg/L		05/02/16 09:52	05/03/16 15:07	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Nickel	ND		0.0030		mg/L		05/02/16 09:52	05/03/16 15:07	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:07	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:07	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:07	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 14:58	1
Chloride	**37**		0.90		mg/L			05/09/16 14:58	1
Sulfate	**25**		1.2		mg/L			05/09/16 14:58	1
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:30	1
Total Organic Carbon	ND		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			05/03/16 20:57	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			05/03/16 20:57	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Total Dissolved Solids	**380**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-16
Date Collected: 04/25/16 13:52
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 15:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 15:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 15:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 15:31	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 15:31	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 15:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 15:31	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 15:31	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 15:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 15:31	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 15:31	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 15:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 15:31	1
2-Butanone	ND		15		ug/L			05/04/16 15:31	1
2-Hexanone	ND		2.0		ug/L			05/04/16 15:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 15:31	1
Acetone	ND		2.0		ug/L			05/04/16 15:31	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 15:31	1
Benzene	ND		0.20		ug/L			05/04/16 15:31	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 15:31	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 15:31	1
Bromoform	ND		0.50		ug/L			05/04/16 15:31	1
Bromomethane	ND		1.0		ug/L			05/04/16 15:31	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 15:31	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 15:31	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 15:31	1
Chloroethane	ND		0.50		ug/L			05/04/16 15:31	1
Chloroform	ND		0.20		ug/L			05/04/16 15:31	1
Chloromethane	ND		0.30		ug/L			05/04/16 15:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 15:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 15:31	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 15:31	1
Dibromomethane	ND		0.20		ug/L			05/04/16 15:31	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 15:31	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 15:31	1
Methyl iodide	ND		0.50		ug/L			05/04/16 15:31	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 15:31	1
o-Xylene	ND		0.50		ug/L			05/04/16 15:31	1
Styrene	ND		0.50		ug/L			05/04/16 15:31	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 15:31	1
Toluene	ND		0.20		ug/L			05/04/16 15:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 15:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 15:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 15:31	1
Trichloroethene	ND		0.20		ug/L			05/04/16 15:31	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 15:31	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 15:31	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 15:31	1

Client Sample ID: 0416-16
Date Collected: 04/25/16 13:52
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 128*		*05/04/16 15:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*05/04/16 15:31*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*05/04/16 15:31*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/04/16 15:31*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 127*		*05/04/16 15:31*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**33**		1.1		mg/L		05/03/16 15:05	05/04/16 14:43	1
Iron	ND		0.30		mg/L		05/03/16 15:05	05/04/16 14:43	1
Magnesium	**31**		1.1		mg/L		05/03/16 15:05	05/04/16 14:43	1
Manganese	ND		0.020		mg/L		05/03/16 15:05	05/04/16 14:43	1
Potassium	ND		3.3		mg/L		05/03/16 15:05	05/04/16 14:43	1
Sodium	**11**		2.0		mg/L		05/03/16 15:05	05/04/16 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Arsenic	**0.0020**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:12	1
Barium	**0.014**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:12	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Cadmium	**0.0020**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Chromium	**0.0019**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Copper	ND		0.0020		mg/L		05/02/16 09:52	05/03/16 15:12	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Nickel	**0.0070**		0.0030		mg/L		05/02/16 09:52	05/03/16 15:12	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:12	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:12	1
Vanadium	**0.0040**		0.0040		mg/L		05/02/16 09:52	05/03/16 15:12	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 15:12	1
Chloride	**7.5**		0.90		mg/L			05/09/16 15:12	1
Sulfate	**15**		1.2		mg/L			05/09/16 15:12	1
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	**3.0**		0.25		mg/L			05/06/16 14:32	5
Total Organic Carbon	**2.4**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**190**		5.0		mg/L			05/03/16 20:57	1
Bicarbonate Alkalinity as CaCO3	**190**		5.0		mg/L			05/03/16 20:57	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Total Dissolved Solids	**280**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-14
Date Collected: 04/25/16 14:58
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 15:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 15:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 15:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 15:58	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 15:58	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 15:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 15:58	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 15:58	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 15:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 15:58	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 15:58	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 15:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 15:58	1
2-Butanone	ND		15		ug/L			05/04/16 15:58	1
2-Hexanone	ND		2.0		ug/L			05/04/16 15:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 15:58	1
Acetone	ND		2.0		ug/L			05/04/16 15:58	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 15:58	1
Benzene	ND		0.20		ug/L			05/04/16 15:58	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 15:58	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 15:58	1
Bromoform	ND		0.50		ug/L			05/04/16 15:58	1
Bromomethane	ND		1.0		ug/L			05/04/16 15:58	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 15:58	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 15:58	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 15:58	1
Chloroethane	ND		0.50		ug/L			05/04/16 15:58	1
Chloroform	ND		0.20		ug/L			05/04/16 15:58	1
Chloromethane	ND		0.30		ug/L			05/04/16 15:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 15:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 15:58	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 15:58	1
Dibromomethane	ND		0.20		ug/L			05/04/16 15:58	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 15:58	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 15:58	1
Methyl iodide	ND		0.50		ug/L			05/04/16 15:58	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 15:58	1
o-Xylene	ND		0.50		ug/L			05/04/16 15:58	1
Styrene	ND		0.50		ug/L			05/04/16 15:58	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 15:58	1
Toluene	ND		0.20		ug/L			05/04/16 15:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 15:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 15:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 15:58	1
Trichloroethene	ND		0.20		ug/L			05/04/16 15:58	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 15:58	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 15:58	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 15:58	1

Client Sample ID: 0416-14
Date Collected: 04/25/16 14:58
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*05/04/16 15:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*		*05/04/16 15:58*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/04/16 15:58*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/04/16 15:58*	*1*
Trifluorotoluene (Surr)	*91*		*80 - 127*		*05/04/16 15:58*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**55**		1.1		mg/L		05/03/16 15:05	05/04/16 14:46	1
Iron	ND		0.30		mg/L		05/03/16 15:05	05/04/16 14:46	1
Magnesium	**68**		1.1		mg/L		05/03/16 15:05	05/04/16 14:46	1
Manganese	**0.15**		0.020		mg/L		05/03/16 15:05	05/04/16 14:46	1
Potassium	**9.8**		3.3		mg/L		05/03/16 15:05	05/04/16 14:46	1
Sodium	**42**		2.0		mg/L		05/03/16 15:05	05/04/16 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Arsenic	**0.0081**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:17	1
Barium	**0.069**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:17	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Chromium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Copper	ND		0.0020		mg/L		05/02/16 09:52	05/03/16 15:17	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Nickel	ND		0.0030		mg/L		05/02/16 09:52	05/03/16 15:17	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:17	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:17	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:17	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 15:27	1
Chloride	**69**		0.90		mg/L			05/09/16 15:27	1
Sulfate	**35**		1.2		mg/L			05/09/16 15:27	1
Ammonia	**0.25**		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:34	1
Total Organic Carbon	**2.5**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			05/03/16 20:57	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			05/03/16 20:57	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Total Dissolved Solids	**550**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-02
Date Collected: 04/25/16 16:04
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 16:24	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 16:24	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 16:24	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 16:24	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 16:24	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 16:24	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 16:24	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 16:24	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 16:24	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 16:24	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 16:24	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 16:24	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 16:24	1
2-Butanone	ND		15		ug/L			05/04/16 16:24	1
2-Hexanone	ND		2.0		ug/L			05/04/16 16:24	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 16:24	1
Acetone	ND		2.0		ug/L			05/04/16 16:24	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 16:24	1
Benzene	ND		0.20		ug/L			05/04/16 16:24	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 16:24	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 16:24	1
Bromoform	ND		0.50		ug/L			05/04/16 16:24	1
Bromomethane	ND		1.0		ug/L			05/04/16 16:24	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 16:24	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 16:24	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 16:24	1
Chloroethane	ND		0.50		ug/L			05/04/16 16:24	1
Chloroform	ND		0.20		ug/L			05/04/16 16:24	1
Chloromethane	ND		0.30		ug/L			05/04/16 16:24	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 16:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 16:24	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 16:24	1
Dibromomethane	ND		0.20		ug/L			05/04/16 16:24	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 16:24	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 16:24	1
Methyl iodide	ND		0.50		ug/L			05/04/16 16:24	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 16:24	1
o-Xylene	ND		0.50		ug/L			05/04/16 16:24	1
Styrene	ND		0.50		ug/L			05/04/16 16:24	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 16:24	1
Toluene	ND		0.20		ug/L			05/04/16 16:24	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 16:24	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 16:24	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 16:24	1
Trichloroethene	ND		0.20		ug/L			05/04/16 16:24	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 16:24	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 16:24	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 16:24	1

Client Sample ID: 0416-02
Date Collected: 04/25/16 16:04
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 128*		*05/04/16 16:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*05/04/16 16:24*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/04/16 16:24*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/04/16 16:24*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 127*		*05/04/16 16:24*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		05/04/16 09:37	05/04/16 17:10	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:10	1
Magnesium	**43**		1.1		mg/L		05/04/16 09:37	05/04/16 17:10	1
Manganese	**0.26**		0.020		mg/L		05/04/16 09:37	05/04/16 17:10	1
Potassium	**6.7**		3.3		mg/L		05/04/16 09:37	05/04/16 17:10	1
Sodium	**27**		2.0		mg/L		05/04/16 09:37	05/04/16 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Arsenic	**0.0066**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:22	1
Barium	**0.030**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:22	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Chromium	**0.00048**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Copper	ND		0.0020		mg/L		05/02/16 09:52	05/03/16 15:22	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Nickel	ND		0.0030		mg/L		05/02/16 09:52	05/03/16 15:22	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:22	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:22	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:22	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 15:41	1
Chloride	**36**		0.90		mg/L			05/09/16 15:41	1
Sulfate	**16**		1.2		mg/L			05/09/16 15:41	1
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:36	1
Total Organic Carbon	**1.1**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**430**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-13
Date Collected: 04/25/16 17:05
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 16:50	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 16:50	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 16:50	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 16:50	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 16:50	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 16:50	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 16:50	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 16:50	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 16:50	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 16:50	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 16:50	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 16:50	1
2-Butanone	ND		15		ug/L			05/04/16 16:50	1
2-Hexanone	ND		2.0		ug/L			05/04/16 16:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 16:50	1
Acetone	ND		2.0		ug/L			05/04/16 16:50	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 16:50	1
Benzene	ND		0.20		ug/L			05/04/16 16:50	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 16:50	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 16:50	1
Bromoform	ND		0.50		ug/L			05/04/16 16:50	1
Bromomethane	ND		1.0		ug/L			05/04/16 16:50	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 16:50	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 16:50	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 16:50	1
Chloroethane	ND		0.50		ug/L			05/04/16 16:50	1
Chloroform	ND		0.20		ug/L			05/04/16 16:50	1
Chloromethane	ND		0.30		ug/L			05/04/16 16:50	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 16:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 16:50	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 16:50	1
Dibromomethane	ND		0.20		ug/L			05/04/16 16:50	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 16:50	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 16:50	1
Methyl iodide	ND		0.50		ug/L			05/04/16 16:50	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 16:50	1
o-Xylene	ND		0.50		ug/L			05/04/16 16:50	1
Styrene	ND		0.50		ug/L			05/04/16 16:50	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 16:50	1
Toluene	ND		0.20		ug/L			05/04/16 16:50	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 16:50	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 16:50	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 16:50	1
Trichloroethene	ND		0.20		ug/L			05/04/16 16:50	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 16:50	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 16:50	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 16:50	1

Client Sample ID: 0416-13
Date Collected: 04/25/16 17:05
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 128*		*05/04/16 16:50*	*1*
4-Bromofluorobenzene (Surr)	*118*		*75 - 120*		*05/04/16 16:50*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*05/04/16 16:50*	*1*
Toluene-d8 (Surr)	*116*		*75 - 125*		*05/04/16 16:50*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 127*		*05/04/16 16:50*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**86**		1.1		mg/L		05/04/16 09:37	05/04/16 17:38	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:38	1
Magnesium	**47**		1.1		mg/L		05/04/16 09:37	05/04/16 17:38	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 17:38	1
Potassium	**4.2**		3.3		mg/L		05/04/16 09:37	05/04/16 17:38	1
Sodium	**42**		2.0		mg/L		05/04/16 09:37	05/04/16 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Arsenic	**0.0022**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:27	1
Barium	**0.030**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:27	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Chromium	**0.0019**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Copper	ND		0.0020		mg/L		05/02/16 09:52	05/03/16 15:27	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Nickel	ND		0.0030		mg/L		05/02/16 09:52	05/03/16 15:27	1
Selenium	**0.0014**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:27	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:27	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:27	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 15:56	1
Chloride	**48**		0.90		mg/L			05/09/16 15:56	1
Sulfate	**56**		1.2		mg/L			05/09/16 15:56	1
Ammonia	**0.22**		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	**3.5**		0.25		mg/L			05/06/16 14:38	5
Total Organic Carbon	**2.0**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**560**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-30
Date Collected: 04/25/16 18:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 17:17	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 17:17	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 17:17	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 17:17	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 17:17	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 17:17	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 17:17	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 17:17	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 17:17	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 17:17	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 17:17	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 17:17	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 17:17	1
2-Butanone	ND		15		ug/L			05/04/16 17:17	1
2-Hexanone	ND		2.0		ug/L			05/04/16 17:17	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 17:17	1
Acetone	ND		2.0		ug/L			05/04/16 17:17	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 17:17	1
Benzene	ND		0.20		ug/L			05/04/16 17:17	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 17:17	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 17:17	1
Bromoform	ND		0.50		ug/L			05/04/16 17:17	1
Bromomethane	ND		1.0		ug/L			05/04/16 17:17	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 17:17	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 17:17	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 17:17	1
Chloroethane	ND		0.50		ug/L			05/04/16 17:17	1
Chloroform	ND		0.20		ug/L			05/04/16 17:17	1
Chloromethane	ND		0.30		ug/L			05/04/16 17:17	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 17:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 17:17	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 17:17	1
Dibromomethane	ND		0.20		ug/L			05/04/16 17:17	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 17:17	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 17:17	1
Methyl iodide	ND		0.50		ug/L			05/04/16 17:17	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 17:17	1
o-Xylene	ND		0.50		ug/L			05/04/16 17:17	1
Styrene	ND		0.50		ug/L			05/04/16 17:17	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 17:17	1
Toluene	ND		0.20		ug/L			05/04/16 17:17	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 17:17	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 17:17	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 17:17	1
Trichloroethene	ND		0.20		ug/L			05/04/16 17:17	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 17:17	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 17:17	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 17:17	1

Client Sample ID: 0416-30
Date Collected: 04/25/16 18:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 128*		*05/04/16 17:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/04/16 17:17*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/04/16 17:17*	*1*
Toluene-d8 (Surr)	*112*		*75 - 125*		*05/04/16 17:17*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 127*		*05/04/16 17:17*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**78**		1.1		mg/L		05/04/16 09:37	05/04/16 17:41	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:41	1
Magnesium	**44**		1.1		mg/L		05/04/16 09:37	05/04/16 17:41	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 17:41	1
Potassium	**5.4**		3.3		mg/L		05/04/16 09:37	05/04/16 17:41	1
Sodium	**30**		2.0		mg/L		05/04/16 09:37	05/04/16 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Arsenic	**0.0034**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:32	1
Barium	**0.023**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:32	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Chromium	**0.0012**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Copper	**0.053**		0.0020		mg/L		05/02/16 09:52	05/03/16 15:32	1
Lead	**0.00061**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Nickel	ND		0.0030		mg/L		05/02/16 09:52	05/03/16 15:32	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:32	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:32	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:32	1
Zinc	**0.12**		0.0070		mg/L		05/02/16 09:52	05/03/16 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 16:39	1
Chloride	**57**		0.90		mg/L			05/09/16 16:39	1
Sulfate	**43**		1.2		mg/L			05/09/16 16:39	1
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	**1.3**		0.050		mg/L			05/06/16 15:40	1
Total Organic Carbon	**1.8**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**510**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-19
Date Collected: 04/26/16 09:10
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 17:43	1
1,1,1-Trichloroethane	**0.52**		0.20		ug/L			05/04/16 17:43	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 17:43	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 17:43	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 17:43	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 17:43	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 17:43	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 17:43	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 17:43	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 17:43	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 17:43	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 17:43	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 17:43	1
2-Butanone	ND		15		ug/L			05/04/16 17:43	1
2-Hexanone	ND		2.0		ug/L			05/04/16 17:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 17:43	1
Acetone	ND		2.0		ug/L			05/04/16 17:43	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 17:43	1
Benzene	ND		0.20		ug/L			05/04/16 17:43	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 17:43	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 17:43	1
Bromoform	ND		0.50		ug/L			05/04/16 17:43	1
Bromomethane	ND		1.0		ug/L			05/04/16 17:43	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 17:43	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 17:43	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 17:43	1
Chloroethane	ND		0.50		ug/L			05/04/16 17:43	1
Chloroform	ND		0.20		ug/L			05/04/16 17:43	1
Chloromethane	ND		0.30		ug/L			05/04/16 17:43	1
cis-1,2-Dichloroethene	**0.37**		0.20		ug/L			05/04/16 17:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 17:43	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 17:43	1
Dibromomethane	ND		0.20		ug/L			05/04/16 17:43	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 17:43	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 17:43	1
Methyl iodide	ND		0.50		ug/L			05/04/16 17:43	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 17:43	1
o-Xylene	ND		0.50		ug/L			05/04/16 17:43	1
Styrene	ND		0.50		ug/L			05/04/16 17:43	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 17:43	1
Toluene	ND		0.20		ug/L			05/04/16 17:43	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 17:43	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 17:43	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 17:43	1
Trichloroethene	**0.21**		0.20		ug/L			05/04/16 17:43	1
Trichlorofluoromethane	**4.8**		0.50		ug/L			05/04/16 17:43	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 17:43	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 17:43	1

Client Sample ID: 0416-19
Date Collected: 04/26/16 09:10
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*05/04/16 17:43*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*05/04/16 17:43*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*05/04/16 17:43*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/04/16 17:43*	*1*
Trifluorotoluene (Surr)	*88*		*80 - 127*		*05/04/16 17:43*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190**		1.1		mg/L		05/04/16 09:37	05/04/16 17:44	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:44	1
Magnesium	**77**		1.1		mg/L		05/04/16 09:37	05/04/16 17:44	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 17:44	1
Potassium	**6.5**		3.3		mg/L		05/04/16 09:37	05/04/16 17:44	1
Sodium	**32**		2.0		mg/L		05/04/16 09:37	05/04/16 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Arsenic	**0.0017**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:37	1
Barium	**0.058**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:37	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Chromium	**0.010**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Copper	**0.0032**		0.0020		mg/L		05/02/16 09:52	05/03/16 15:37	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Nickel	**0.0097**		0.0030		mg/L		05/02/16 09:52	05/03/16 15:37	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:37	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:37	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:37	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 16:53	1
Chloride	**7.9**		0.90		mg/L			05/09/16 16:53	1
Sulfate	**340**		12		mg/L			05/10/16 10:56	10
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1
Nitrate Nitrite as N	**7.0**		1.0		mg/L			05/06/16 14:48	20
Total Organic Carbon	**9.0**		1.0		mg/L			05/10/16 11:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**470**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**1100**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	**19**		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-31
Date Collected: 04/26/16 09:30
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 18:09	1
1,1,1-Trichloroethane	**0.52**		0.20		ug/L			05/04/16 18:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 18:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 18:09	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 18:09	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 18:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 18:09	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 18:09	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 18:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 18:09	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 18:09	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 18:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 18:09	1
2-Butanone	ND		15		ug/L			05/04/16 18:09	1
2-Hexanone	ND		2.0		ug/L			05/04/16 18:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 18:09	1
Acetone	ND		2.0		ug/L			05/04/16 18:09	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 18:09	1
Benzene	ND		0.20		ug/L			05/04/16 18:09	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 18:09	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 18:09	1
Bromoform	ND		0.50		ug/L			05/04/16 18:09	1
Bromomethane	ND		1.0		ug/L			05/04/16 18:09	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 18:09	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 18:09	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 18:09	1
Chloroethane	ND		0.50		ug/L			05/04/16 18:09	1
Chloroform	ND		0.20		ug/L			05/04/16 18:09	1
Chloromethane	ND		0.30		ug/L			05/04/16 18:09	1
cis-1,2-Dichloroethene	**0.46**		0.20		ug/L			05/04/16 18:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 18:09	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 18:09	1
Dibromomethane	ND		0.20		ug/L			05/04/16 18:09	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 18:09	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 18:09	1
Methyl iodide	ND		0.50		ug/L			05/04/16 18:09	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 18:09	1
o-Xylene	ND		0.50		ug/L			05/04/16 18:09	1
Styrene	ND		0.50		ug/L			05/04/16 18:09	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 18:09	1
Toluene	ND		0.20		ug/L			05/04/16 18:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 18:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 18:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 18:09	1
Trichloroethene	**0.25**		0.20		ug/L			05/04/16 18:09	1
Trichlorofluoromethane	**4.4**		0.50		ug/L			05/04/16 18:09	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 18:09	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 18:09	1

Client Sample ID: 0416-31
Date Collected: 04/26/16 09:30
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 128*		*05/04/16 18:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*05/04/16 18:09*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/04/16 18:09*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/04/16 18:09*	*1*
Trifluorotoluene (Surr)	*88*		*80 - 127*		*05/04/16 18:09*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190**		1.1		mg/L		05/04/16 09:37	05/04/16 17:48	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:48	1
Magnesium	**75**		1.1		mg/L		05/04/16 09:37	05/04/16 17:48	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 17:48	1
Potassium	**6.4**		3.3		mg/L		05/04/16 09:37	05/04/16 17:48	1
Sodium	**31**		2.0		mg/L		05/04/16 09:37	05/04/16 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Arsenic	**0.0018**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:42	1
Barium	**0.058**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:42	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Chromium	**0.0099**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Copper	**0.0035**		0.0020		mg/L		05/02/16 09:52	05/03/16 15:42	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Nickel	**0.0099**		0.0030		mg/L		05/02/16 09:52	05/03/16 15:42	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:42	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:42	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:42	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 17:08	1
Chloride	**8.0**		0.90		mg/L			05/09/16 17:08	1
Sulfate	**340**		12		mg/L			05/10/16 11:10	10
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	**7.2**		0.50		mg/L			05/06/16 14:50	10
Total Organic Carbon	**9.2**	**F1**	1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**470**		5.0		mg/L			05/03/16 20:57	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0		mg/L			05/03/16 20:57	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/03/16 20:57	1
Total Dissolved Solids	**1100**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	**15**		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-23
Date Collected: 04/26/16 10:27
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 18:35	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 18:35	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 18:35	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 18:35	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 18:35	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 18:35	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 18:35	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 18:35	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 18:35	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 18:35	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 18:35	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 18:35	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 18:35	1
2-Butanone	ND		15		ug/L			05/04/16 18:35	1
2-Hexanone	ND		2.0		ug/L			05/04/16 18:35	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 18:35	1
Acetone	ND		2.0		ug/L			05/04/16 18:35	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 18:35	1
Benzene	ND		0.20		ug/L			05/04/16 18:35	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 18:35	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 18:35	1
Bromoform	ND		0.50		ug/L			05/04/16 18:35	1
Bromomethane	ND		1.0		ug/L			05/04/16 18:35	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 18:35	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 18:35	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 18:35	1
Chloroethane	ND		0.50		ug/L			05/04/16 18:35	1
Chloroform	ND		0.20		ug/L			05/04/16 18:35	1
Chloromethane	ND		0.30		ug/L			05/04/16 18:35	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 18:35	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 18:35	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 18:35	1
Dibromomethane	ND		0.20		ug/L			05/04/16 18:35	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 18:35	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 18:35	1
Methyl iodide	ND		0.50		ug/L			05/04/16 18:35	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 18:35	1
o-Xylene	ND		0.50		ug/L			05/04/16 18:35	1
Styrene	ND		0.50		ug/L			05/04/16 18:35	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 18:35	1
Toluene	ND		0.20		ug/L			05/04/16 18:35	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 18:35	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 18:35	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 18:35	1
Trichloroethene	ND		0.20		ug/L			05/04/16 18:35	1
Trichlorofluoromethane	**1.5**		0.50		ug/L			05/04/16 18:35	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 18:35	1
Vinyl chloride	**0.18**		0.020		ug/L			05/04/16 18:35	1

Client Sample ID: 0416-23
Date Collected: 04/26/16 10:27
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 128*		*05/04/16 18:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*05/04/16 18:35*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/04/16 18:35*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/04/16 18:35*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 127*		*05/04/16 18:35*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		05/04/16 09:37	05/04/16 17:51	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:51	1
Magnesium	**66**		1.1		mg/L		05/04/16 09:37	05/04/16 17:51	1
Manganese	**0.35**		0.020		mg/L		05/04/16 09:37	05/04/16 17:51	1
Potassium	**7.6**		3.3		mg/L		05/04/16 09:37	05/04/16 17:51	1
Sodium	**32**		2.0		mg/L		05/04/16 09:37	05/04/16 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00042**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Arsenic	**0.0019**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:47	1
Barium	**0.064**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:47	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Chromium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Cobalt	**0.0010**		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Copper	**0.0031**		0.0020		mg/L		05/02/16 09:52	05/03/16 15:47	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Nickel	**0.0049**		0.0030		mg/L		05/02/16 09:52	05/03/16 15:47	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:47	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:47	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 15:47	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 17:22	1
Chloride	**26**		0.90		mg/L			05/09/16 17:22	1
Sulfate	**65**		1.2		mg/L			05/09/16 17:22	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	**8.6**		0.50		mg/L			05/06/16 14:52	10
Total Organic Carbon	**1.9**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**580**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**580**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**810**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-22
Date Collected: 04/26/16 11:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 19:01	1
1,1,1-Trichloroethane	**0.25**		0.20		ug/L			05/04/16 19:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 19:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 19:01	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 19:01	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 19:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 19:01	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 19:01	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 19:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 19:01	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 19:01	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 19:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 19:01	1
2-Butanone	ND		15		ug/L			05/04/16 19:01	1
2-Hexanone	ND		2.0		ug/L			05/04/16 19:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 19:01	1
Acetone	ND		2.0		ug/L			05/04/16 19:01	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 19:01	1
Benzene	ND		0.20		ug/L			05/04/16 19:01	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 19:01	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 19:01	1
Bromoform	ND		0.50		ug/L			05/04/16 19:01	1
Bromomethane	ND		1.0		ug/L			05/04/16 19:01	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 19:01	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 19:01	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 19:01	1
Chloroethane	ND		0.50		ug/L			05/04/16 19:01	1
Chloroform	ND		0.20		ug/L			05/04/16 19:01	1
Chloromethane	ND		0.30		ug/L			05/04/16 19:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 19:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 19:01	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 19:01	1
Dibromomethane	ND		0.20		ug/L			05/04/16 19:01	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 19:01	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 19:01	1
Methyl iodide	ND		0.50		ug/L			05/04/16 19:01	1
Methylene Chloride	**0.59**		0.50		ug/L			05/04/16 19:01	1
o-Xylene	ND		0.50		ug/L			05/04/16 19:01	1
Styrene	ND		0.50		ug/L			05/04/16 19:01	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 19:01	1
Toluene	ND		0.20		ug/L			05/04/16 19:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 19:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 19:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 19:01	1
Trichloroethene	ND		0.20		ug/L			05/04/16 19:01	1
Trichlorofluoromethane	**1.6**		0.50		ug/L			05/04/16 19:01	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 19:01	1
Vinyl chloride	**25**		0.020		ug/L			05/04/16 19:01	1

Client Sample ID: 0416-22
Date Collected: 04/26/16 11:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 128*		*05/04/16 19:01*	*1*
4-Bromofluorobenzene (Surr)	*111*		*75 - 120*		*05/04/16 19:01*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*05/04/16 19:01*	*1*
Toluene-d8 (Surr)	*114*		*75 - 125*		*05/04/16 19:01*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 127*		*05/04/16 19:01*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**210**		1.1		mg/L		05/04/16 09:37	05/04/16 17:54	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:54	1
Magnesium	**100**		1.1		mg/L		05/04/16 09:37	05/04/16 17:54	1
Manganese	**0.061**		0.020		mg/L		05/04/16 09:37	05/04/16 17:54	1
Potassium	**9.4**		3.3		mg/L		05/04/16 09:37	05/04/16 17:54	1
Sodium	**39**		2.0		mg/L		05/04/16 09:37	05/04/16 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Arsenic	**0.0024**		0.0010		mg/L		05/02/16 09:52	05/03/16 15:52	1
Barium	**0.053**		0.0012		mg/L		05/02/16 09:52	05/03/16 15:52	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Chromium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Copper	**0.0031**		0.0020		mg/L		05/02/16 09:52	05/03/16 15:52	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Nickel	**0.0073**		0.0030		mg/L		05/02/16 09:52	05/03/16 15:52	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:52	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 15:52	1
Vanadium	**0.0067**		0.0040		mg/L		05/02/16 09:52	05/03/16 15:52	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/11/16 10:33	1
Chloride	**31**		0.90		mg/L			05/11/16 10:33	1
Sulfate	**60**		1.2		mg/L			05/11/16 10:33	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	**3.4**		0.25		mg/L			05/06/16 14:54	5
Total Organic Carbon	**2.6**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**860**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**860**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**1100**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-03
Date Collected: 04/26/16 13:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 19:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 19:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 19:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 19:28	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 19:28	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 19:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 19:28	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 19:28	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 19:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 19:28	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 19:28	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 19:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 19:28	1
2-Butanone	ND		15		ug/L			05/04/16 19:28	1
2-Hexanone	ND		2.0		ug/L			05/04/16 19:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 19:28	1
Acetone	ND		2.0		ug/L			05/04/16 19:28	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 19:28	1
Benzene	ND		0.20		ug/L			05/04/16 19:28	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 19:28	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 19:28	1
Bromoform	ND		0.50		ug/L			05/04/16 19:28	1
Bromomethane	ND		1.0		ug/L			05/04/16 19:28	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 19:28	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 19:28	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 19:28	1
Chloroethane	ND		0.50		ug/L			05/04/16 19:28	1
Chloroform	ND		0.20		ug/L			05/04/16 19:28	1
Chloromethane	ND		0.30		ug/L			05/04/16 19:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 19:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 19:28	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 19:28	1
Dibromomethane	ND		0.20		ug/L			05/04/16 19:28	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 19:28	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 19:28	1
Methyl iodide	ND		0.50		ug/L			05/04/16 19:28	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 19:28	1
o-Xylene	ND		0.50		ug/L			05/04/16 19:28	1
Styrene	ND		0.50		ug/L			05/04/16 19:28	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 19:28	1
Toluene	ND		0.20		ug/L			05/04/16 19:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 19:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 19:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 19:28	1
Trichloroethene	ND		0.20		ug/L			05/04/16 19:28	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 19:28	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 19:28	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 19:28	1

Client Sample ID: 0416-03
Date Collected: 04/26/16 13:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-14
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*05/04/16 19:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*		*05/04/16 19:28*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*05/04/16 19:28*	*1*
Toluene-d8 (Surr)	*86*		*75 - 125*		*05/04/16 19:28*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*05/04/16 19:28*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		05/04/16 09:37	05/04/16 18:07	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 18:07	1
Magnesium	**51**		1.1		mg/L		05/04/16 09:37	05/04/16 18:07	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 18:07	1
Potassium	**6.2**		3.3		mg/L		05/04/16 09:37	05/04/16 18:07	1
Sodium	**30**		2.0		mg/L		05/04/16 09:37	05/04/16 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Arsenic	**0.0028**		0.0010		mg/L		05/02/16 10:47	05/03/16 16:33	1
Barium	**0.049**		0.0012		mg/L		05/02/16 10:47	05/03/16 16:33	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Chromium	**0.0048**		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 16:33	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 16:33	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:33	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:33	1
Vanadium	**0.0058**		0.0040		mg/L		05/02/16 10:47	05/03/16 16:33	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/11/16 10:48	1
Chloride	**48**		0.90		mg/L			05/11/16 10:48	1
Sulfate	**43**		1.2		mg/L			05/11/16 10:48	1
Ammonia	**0.51**		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	**0.74**		0.050		mg/L			05/06/16 14:56	1
Total Organic Carbon	**1.4**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**500**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**500**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**700**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-04
Date Collected: 04/26/16 13:55
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 19:54	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 19:54	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 19:54	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 19:54	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 19:54	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 19:54	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 19:54	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 19:54	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 19:54	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 19:54	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 19:54	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 19:54	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 19:54	1
2-Butanone	ND		15		ug/L			05/04/16 19:54	1
2-Hexanone	ND		2.0		ug/L			05/04/16 19:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 19:54	1
Acetone	ND		2.0		ug/L			05/04/16 19:54	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 19:54	1
Benzene	ND		0.20		ug/L			05/04/16 19:54	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 19:54	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 19:54	1
Bromoform	ND		0.50		ug/L			05/04/16 19:54	1
Bromomethane	ND		1.0		ug/L			05/04/16 19:54	1
Carbon disulfide	**0.27**		0.20		ug/L			05/04/16 19:54	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 19:54	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 19:54	1
Chloroethane	ND		0.50		ug/L			05/04/16 19:54	1
Chloroform	ND		0.20		ug/L			05/04/16 19:54	1
Chloromethane	ND		0.30		ug/L			05/04/16 19:54	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 19:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 19:54	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 19:54	1
Dibromomethane	ND		0.20		ug/L			05/04/16 19:54	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 19:54	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 19:54	1
Methyl iodide	ND		0.50		ug/L			05/04/16 19:54	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 19:54	1
o-Xylene	ND		0.50		ug/L			05/04/16 19:54	1
Styrene	ND		0.50		ug/L			05/04/16 19:54	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 19:54	1
Toluene	ND		0.20		ug/L			05/04/16 19:54	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 19:54	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 19:54	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 19:54	1
Trichloroethene	ND		0.20		ug/L			05/04/16 19:54	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 19:54	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 19:54	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 19:54	1

Client Sample ID: 0416-04
Date Collected: 04/26/16 13:55
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-15
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*05/04/16 19:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*05/04/16 19:54*	*1*
Dibromofluoromethane (Surr)	*99*		*85 - 115*		*05/04/16 19:54*	*1*
Toluene-d8 (Surr)	*85*		*75 - 125*		*05/04/16 19:54*	*1*
Trifluorotoluene (Surr)	*93*		*80 - 127*		*05/04/16 19:54*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**38**		1.1		mg/L		05/04/16 09:37	05/04/16 18:10	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 18:10	1
Magnesium	**25**		1.1		mg/L		05/04/16 09:37	05/04/16 18:10	1
Manganese	**0.066**		0.020		mg/L		05/04/16 09:37	05/04/16 18:10	1
Potassium	**10**		3.3		mg/L		05/04/16 09:37	05/04/16 18:10	1
Sodium	**34**		2.0		mg/L		05/04/16 09:37	05/04/16 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Arsenic	**0.014**		0.0010		mg/L		05/02/16 10:47	05/03/16 16:37	1
Barium	**0.034**		0.0012		mg/L		05/02/16 10:47	05/03/16 16:37	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Chromium	**0.00047**		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 16:37	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 16:37	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:37	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:37	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 16:37	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/11/16 11:02	1
Chloride	**32**		0.90		mg/L			05/11/16 11:02	1
Sulfate	**13**		1.2		mg/L			05/11/16 11:02	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:58	1
Total Organic Carbon	**4.4**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**340**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-01
Date Collected: 04/26/16 15:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 20:20	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 20:20	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 20:20	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 20:20	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 20:20	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 20:20	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 20:20	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			05/04/16 20:20	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 20:20	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 20:20	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 20:20	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 20:20	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 20:20	1
2-Butanone	ND		15		ug/L			05/04/16 20:20	1
2-Hexanone	ND		2.0		ug/L			05/04/16 20:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 20:20	1
Acetone	ND		2.0		ug/L			05/04/16 20:20	1
Acrylonitrile	ND		5.0		ug/L			05/04/16 20:20	1
Benzene	ND		0.20		ug/L			05/04/16 20:20	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 20:20	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 20:20	1
Bromoform	ND		0.50		ug/L			05/04/16 20:20	1
Bromomethane	ND		1.0		ug/L			05/04/16 20:20	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 20:20	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 20:20	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 20:20	1
Chloroethane	ND		0.50		ug/L			05/04/16 20:20	1
Chloroform	ND		0.20		ug/L			05/04/16 20:20	1
Chloromethane	ND		0.30		ug/L			05/04/16 20:20	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 20:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 20:20	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 20:20	1
Dibromomethane	ND		0.20		ug/L			05/04/16 20:20	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 20:20	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 20:20	1
Methyl iodide	ND		0.50		ug/L			05/04/16 20:20	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 20:20	1
o-Xylene	ND		0.50		ug/L			05/04/16 20:20	1
Styrene	ND		0.50		ug/L			05/04/16 20:20	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 20:20	1
Toluene	ND		0.20		ug/L			05/04/16 20:20	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 20:20	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 20:20	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 20:20	1
Trichloroethene	ND		0.20		ug/L			05/04/16 20:20	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 20:20	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 20:20	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 20:20	1

Client Sample ID: 0416-01
Date Collected: 04/26/16 15:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-16
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 128*		*05/04/16 20:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 120*		*05/04/16 20:20*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/04/16 20:20*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/04/16 20:20*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 127*		*05/04/16 20:20*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**57**		1.1		mg/L		05/04/16 09:37	05/04/16 18:14	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 18:14	1
Magnesium	**37**		1.1		mg/L		05/04/16 09:37	05/04/16 18:14	1
Manganese	**0.13**		0.020		mg/L		05/04/16 09:37	05/04/16 18:14	1
Potassium	**6.3**		3.3		mg/L		05/04/16 09:37	05/04/16 18:14	1
Sodium	**24**		2.0		mg/L		05/04/16 09:37	05/04/16 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Arsenic	**0.0062**		0.0010		mg/L		05/02/16 10:47	05/03/16 16:42	1
Barium	**0.025**		0.0012		mg/L		05/02/16 10:47	05/03/16 16:42	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 16:42	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 16:42	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:42	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:42	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 16:42	1
Zinc	**0.096**		0.0070		mg/L		05/02/16 10:47	05/03/16 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 17:37	1
Chloride	**24**		0.90		mg/L			05/09/16 17:37	1
Sulfate	**22**		1.2		mg/L			05/09/16 17:37	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 15:04	1
Total Organic Carbon	**1.1**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**290**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**410**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-24
Date Collected: 04/26/16 16:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 13:08	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/09/16 13:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 13:08	1
1,1,2-Trichloroethane	ND	*	0.20		ug/L			05/09/16 13:08	1
1,1-Dichloroethane	ND		0.20		ug/L			05/09/16 13:08	1
1,1-Dichloroethene	ND		0.10		ug/L			05/09/16 13:08	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			05/09/16 13:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/09/16 13:08	1
1,2-Dibromoethane	ND	*	0.10		ug/L			05/09/16 13:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/09/16 13:08	1
1,2-Dichloroethane	ND		0.20		ug/L			05/09/16 13:08	1
1,2-Dichloropropane	ND		0.20		ug/L			05/09/16 13:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/09/16 13:08	1
2-Butanone	ND		15		ug/L			05/09/16 13:08	1
2-Hexanone	ND		2.0		ug/L			05/09/16 13:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/09/16 13:08	1
Acetone	ND		2.0		ug/L			05/09/16 13:08	1
Acrylonitrile	ND		5.0		ug/L			05/09/16 13:08	1
Benzene	ND		0.20		ug/L			05/09/16 13:08	1
Bromochloromethane	ND		0.20		ug/L			05/09/16 13:08	1
Bromodichloromethane	ND		0.20		ug/L			05/09/16 13:08	1
Bromoform	ND		0.50		ug/L			05/09/16 13:08	1
Bromomethane	ND		1.0		ug/L			05/09/16 13:08	1
Carbon disulfide	ND		0.20		ug/L			05/09/16 13:08	1
Carbon tetrachloride	ND		0.20		ug/L			05/09/16 13:08	1
Chlorobenzene	ND		0.20		ug/L			05/09/16 13:08	1
Chloroethane	ND		0.50		ug/L			05/09/16 13:08	1
Chloroform	ND		0.20		ug/L			05/09/16 13:08	1
Chloromethane	ND		0.30		ug/L			05/09/16 13:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 13:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/09/16 13:08	1
Dibromochloromethane	ND		0.20		ug/L			05/09/16 13:08	1
Dibromomethane	ND		0.20		ug/L			05/09/16 13:08	1
Ethylbenzene	ND		0.20		ug/L			05/09/16 13:08	1
m,p-Xylene	ND		0.50		ug/L			05/09/16 13:08	1
Methyl iodide	ND		0.50		ug/L			05/09/16 13:08	1
Methylene Chloride	ND		0.50		ug/L			05/09/16 13:08	1
o-Xylene	ND		0.50		ug/L			05/09/16 13:08	1
Styrene	ND		0.50		ug/L			05/09/16 13:08	1
Tetrachloroethene	ND		0.50		ug/L			05/09/16 13:08	1
Toluene	ND		0.20		ug/L			05/09/16 13:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 13:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/09/16 13:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/09/16 13:08	1
Trichloroethene	ND		0.20		ug/L			05/09/16 13:08	1
Trichlorofluoromethane	ND		0.50		ug/L			05/09/16 13:08	1
Vinyl acetate	ND		1.0		ug/L			05/09/16 13:08	1
Vinyl chloride	ND		0.020		ug/L			05/09/16 13:08	1

Client Sample ID: 0416-24
Date Collected: 04/26/16 16:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-17
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*05/09/16 13:08*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*05/09/16 13:08*	*1*
Dibromofluoromethane (Surr)	*99*		*85 - 115*		*05/09/16 13:08*	*1*
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/09/16 13:08*	*1*
Trifluorotoluene (Surr)	*90*		*80 - 127*		*05/09/16 13:08*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**39**		1.1		mg/L		05/04/16 09:37	05/04/16 18:17	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 18:17	1
Magnesium	**54**		1.1		mg/L		05/04/16 09:37	05/04/16 18:17	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 18:17	1
Potassium	**10**		3.3		mg/L		05/04/16 09:37	05/04/16 18:17	1
Sodium	**29**		2.0		mg/L		05/04/16 09:37	05/04/16 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Arsenic	**0.0041**		0.0010		mg/L		05/02/16 10:47	05/03/16 16:47	1
Barium	**0.033**		0.0012		mg/L		05/02/16 10:47	05/03/16 16:47	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Copper	**0.0053**		0.0020		mg/L		05/02/16 10:47	05/03/16 16:47	1
Lead	**0.0017**		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Nickel	**0.0034**		0.0030		mg/L		05/02/16 10:47	05/03/16 16:47	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:47	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:47	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 16:47	1
Zinc	**1.0**		0.0070		mg/L		05/02/16 10:47	05/03/16 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 17:51	1
Chloride	**43**		0.90		mg/L			05/09/16 17:51	1
Sulfate	**23**		1.2		mg/L			05/09/16 17:51	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	**0.42**		0.050		mg/L			05/06/16 15:34	1
Total Organic Carbon	**1.8**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**290**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**420**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-10
Date Collected: 04/26/16 17:02
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 13:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/09/16 13:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 13:34	1
1,1,2-Trichloroethane	ND	*	0.20		ug/L			05/09/16 13:34	1
1,1-Dichloroethane	ND		0.20		ug/L			05/09/16 13:34	1
1,1-Dichloroethene	ND		0.10		ug/L			05/09/16 13:34	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			05/09/16 13:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/09/16 13:34	1
1,2-Dibromoethane	ND	*	0.10		ug/L			05/09/16 13:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/09/16 13:34	1
1,2-Dichloroethane	ND		0.20		ug/L			05/09/16 13:34	1
1,2-Dichloropropane	ND		0.20		ug/L			05/09/16 13:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/09/16 13:34	1
2-Butanone	ND		15		ug/L			05/09/16 13:34	1
2-Hexanone	ND		2.0		ug/L			05/09/16 13:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/09/16 13:34	1
Acetone	ND		2.0		ug/L			05/09/16 13:34	1
Acrylonitrile	ND		5.0		ug/L			05/09/16 13:34	1
Benzene	ND		0.20		ug/L			05/09/16 13:34	1
Bromochloromethane	ND		0.20		ug/L			05/09/16 13:34	1
Bromodichloromethane	ND		0.20		ug/L			05/09/16 13:34	1
Bromoform	ND		0.50		ug/L			05/09/16 13:34	1
Bromomethane	ND		1.0		ug/L			05/09/16 13:34	1
Carbon disulfide	ND		0.20		ug/L			05/09/16 13:34	1
Carbon tetrachloride	ND		0.20		ug/L			05/09/16 13:34	1
Chlorobenzene	ND		0.20		ug/L			05/09/16 13:34	1
Chloroethane	ND		0.50		ug/L			05/09/16 13:34	1
Chloroform	ND		0.20		ug/L			05/09/16 13:34	1
Chloromethane	ND		0.30		ug/L			05/09/16 13:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 13:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/09/16 13:34	1
Dibromochloromethane	ND		0.20		ug/L			05/09/16 13:34	1
Dibromomethane	ND		0.20		ug/L			05/09/16 13:34	1
Ethylbenzene	ND		0.20		ug/L			05/09/16 13:34	1
m,p-Xylene	ND		0.50		ug/L			05/09/16 13:34	1
Methyl iodide	ND		0.50		ug/L			05/09/16 13:34	1
Methylene Chloride	ND		0.50		ug/L			05/09/16 13:34	1
o-Xylene	ND		0.50		ug/L			05/09/16 13:34	1
Styrene	ND		0.50		ug/L			05/09/16 13:34	1
Tetrachloroethene	ND		0.50		ug/L			05/09/16 13:34	1
Toluene	ND		0.20		ug/L			05/09/16 13:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 13:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/09/16 13:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/09/16 13:34	1
Trichloroethene	ND		0.20		ug/L			05/09/16 13:34	1
Trichlorofluoromethane	ND		0.50		ug/L			05/09/16 13:34	1
Vinyl acetate	ND		1.0		ug/L			05/09/16 13:34	1
Vinyl chloride	ND		0.020		ug/L			05/09/16 13:34	1

Client Sample ID: 0416-10
Date Collected: 04/26/16 17:02
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-18
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 128*		*05/09/16 13:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/09/16 13:34*	*1*
Dibromofluoromethane (Surr)	*100*		*85 - 115*		*05/09/16 13:34*	*1*
Toluene-d8 (Surr)	*92*		*75 - 125*		*05/09/16 13:34*	*1*
Trifluorotoluene (Surr)	*89*		*80 - 127*		*05/09/16 13:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		05/04/16 09:37	05/04/16 18:20	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 18:20	1
Magnesium	**52**		1.1		mg/L		05/04/16 09:37	05/04/16 18:20	1
Manganese	**0.16**		0.020		mg/L		05/04/16 09:37	05/04/16 18:20	1
Potassium	**7.7**		3.3		mg/L		05/04/16 09:37	05/04/16 18:20	1
Sodium	**36**		2.0		mg/L		05/04/16 09:37	05/04/16 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Arsenic	**0.0081**		0.0010		mg/L		05/02/16 10:47	05/03/16 16:53	1
Barium	**0.045**		0.0012		mg/L		05/02/16 10:47	05/03/16 16:53	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Chromium	**0.00048**		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 16:53	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 16:53	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:53	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:53	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 16:53	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 18:06	1
Chloride	**73**		0.90		mg/L			05/09/16 18:06	1
Sulfate	**32**		1.2		mg/L			05/09/16 18:06	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 15:36	1
Total Organic Carbon	**3.1**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**540**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: 0416-11
Date Collected: 04/26/16 17:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-19
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 14:00	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/09/16 14:00	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 14:00	1
1,1,2-Trichloroethane	ND	*	0.20		ug/L			05/09/16 14:00	1
1,1-Dichloroethane	ND		0.20		ug/L			05/09/16 14:00	1
1,1-Dichloroethene	ND		0.10		ug/L			05/09/16 14:00	1
1,2,3-Trichloropropane	ND	*	0.20		ug/L			05/09/16 14:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/09/16 14:00	1
1,2-Dibromoethane	ND	*	0.10		ug/L			05/09/16 14:00	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/09/16 14:00	1
1,2-Dichloroethane	ND		0.20		ug/L			05/09/16 14:00	1
1,2-Dichloropropane	ND		0.20		ug/L			05/09/16 14:00	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/09/16 14:00	1
2-Butanone	ND		15		ug/L			05/09/16 14:00	1
2-Hexanone	ND		2.0		ug/L			05/09/16 14:00	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/09/16 14:00	1
Acetone	ND		2.0		ug/L			05/09/16 14:00	1
Acrylonitrile	ND		5.0		ug/L			05/09/16 14:00	1
Benzene	ND		0.20		ug/L			05/09/16 14:00	1
Bromochloromethane	ND		0.20		ug/L			05/09/16 14:00	1
Bromodichloromethane	ND		0.20		ug/L			05/09/16 14:00	1
Bromoform	ND		0.50		ug/L			05/09/16 14:00	1
Bromomethane	ND		1.0		ug/L			05/09/16 14:00	1
Carbon disulfide	ND		0.20		ug/L			05/09/16 14:00	1
Carbon tetrachloride	ND		0.20		ug/L			05/09/16 14:00	1
Chlorobenzene	ND		0.20		ug/L			05/09/16 14:00	1
Chloroethane	ND		0.50		ug/L			05/09/16 14:00	1
Chloroform	ND		0.20		ug/L			05/09/16 14:00	1
Chloromethane	ND		0.30		ug/L			05/09/16 14:00	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 14:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/09/16 14:00	1
Dibromochloromethane	ND		0.20		ug/L			05/09/16 14:00	1
Dibromomethane	ND		0.20		ug/L			05/09/16 14:00	1
Ethylbenzene	ND		0.20		ug/L			05/09/16 14:00	1
m,p-Xylene	ND		0.50		ug/L			05/09/16 14:00	1
Methyl iodide	ND		0.50		ug/L			05/09/16 14:00	1
Methylene Chloride	ND		0.50		ug/L			05/09/16 14:00	1
o-Xylene	ND		0.50		ug/L			05/09/16 14:00	1
Styrene	ND		0.50		ug/L			05/09/16 14:00	1
Tetrachloroethene	ND		0.50		ug/L			05/09/16 14:00	1
Toluene	ND		0.20		ug/L			05/09/16 14:00	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 14:00	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/09/16 14:00	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/09/16 14:00	1
Trichloroethene	ND		0.20		ug/L			05/09/16 14:00	1
Trichlorofluoromethane	ND		0.50		ug/L			05/09/16 14:00	1
Vinyl acetate	ND		1.0		ug/L			05/09/16 14:00	1
Vinyl chloride	ND		0.020		ug/L			05/09/16 14:00	1

Client Sample ID: 0416-11
Date Collected: 04/26/16 17:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-19
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 128*		*05/09/16 14:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 120*		*05/09/16 14:00*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*05/09/16 14:00*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/09/16 14:00*	*1*
Trifluorotoluene (Surr)	*91*		*80 - 127*		*05/09/16 14:00*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		05/04/16 09:37	05/04/16 18:23	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 18:23	1
Magnesium	**49**		1.1		mg/L		05/04/16 09:37	05/04/16 18:23	1
Manganese	**0.20**		0.020		mg/L		05/04/16 09:37	05/04/16 18:23	1
Potassium	**6.7**		3.3		mg/L		05/04/16 09:37	05/04/16 18:23	1
Sodium	**33**		2.0		mg/L		05/04/16 09:37	05/04/16 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Arsenic	**0.0058**		0.0010		mg/L		05/02/16 10:47	05/03/16 16:58	1
Barium	**0.035**		0.0012		mg/L		05/02/16 10:47	05/03/16 16:58	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 16:58	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 16:58	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:58	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 16:58	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 16:58	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.20		mg/L			05/09/16 18:20	1
Chloride	**61**		0.90		mg/L			05/09/16 18:20	1
Sulfate	**31**	**F1**	1.2		mg/L			05/09/16 18:20	1
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 15:38	1
Total Organic Carbon	**2.2**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**520**		10		mg/L			05/02/16 11:11	1
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Client Sample ID: Trip Blank
Date Collected: 04/25/16 00:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 15:45	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/16 15:45	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 15:45	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/16 15:45	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/16 15:45	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/16 15:45	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/16 15:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/16 15:45	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/16 15:45	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/16 15:45	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/16 15:45	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/16 15:45	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/16 15:45	1
2-Butanone	ND	*	15		ug/L			05/03/16 15:45	1
2-Hexanone	ND		2.0		ug/L			05/03/16 15:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/16 15:45	1
Acetone	ND		2.0		ug/L			05/03/16 15:45	1
Acrylonitrile	ND		5.0		ug/L			05/03/16 15:45	1
Benzene	ND		0.20		ug/L			05/03/16 15:45	1
Bromochloromethane	ND		0.20		ug/L			05/03/16 15:45	1
Bromodichloromethane	ND		0.20		ug/L			05/03/16 15:45	1
Bromoform	ND		0.50		ug/L			05/03/16 15:45	1
Bromomethane	ND		1.0		ug/L			05/03/16 15:45	1
Carbon disulfide	ND		0.20		ug/L			05/03/16 15:45	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/16 15:45	1
Chlorobenzene	ND		0.20		ug/L			05/03/16 15:45	1
Chloroethane	ND		0.50		ug/L			05/03/16 15:45	1
Chloroform	ND		0.20		ug/L			05/03/16 15:45	1
Chloromethane	ND		0.30		ug/L			05/03/16 15:45	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 15:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/16 15:45	1
Dibromochloromethane	ND		0.20		ug/L			05/03/16 15:45	1
Dibromomethane	ND		0.20		ug/L			05/03/16 15:45	1
Ethylbenzene	ND		0.20		ug/L			05/03/16 15:45	1
m,p-Xylene	ND		0.50		ug/L			05/03/16 15:45	1
Methyl iodide	ND		0.50		ug/L			05/03/16 15:45	1
Methylene Chloride	ND		0.50		ug/L			05/03/16 15:45	1
o-Xylene	ND	*	0.50		ug/L			05/03/16 15:45	1
Styrene	ND		0.50		ug/L			05/03/16 15:45	1
Tetrachloroethene	ND		0.50		ug/L			05/03/16 15:45	1
Toluene	ND		0.20		ug/L			05/03/16 15:45	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 15:45	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/16 15:45	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/16 15:45	1
Trichloroethene	ND		0.20		ug/L			05/03/16 15:45	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/16 15:45	1
Vinyl acetate	ND	*	1.0		ug/L			05/03/16 15:45	1
Vinyl chloride	ND		0.020		ug/L			05/03/16 15:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: Trip Blank
Date Collected: 04/25/16 00:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-20
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 128		05/03/16 15:45	1
4-Bromofluorobenzene (Surr)	100		75 - 120		05/03/16 15:45	1
Dibromofluoromethane (Surr)	98		85 - 115		05/03/16 15:45	1
Toluene-d8 (Surr)	98		75 - 125		05/03/16 15:45	1
Trifluorotoluene (Surr)	91		80 - 127		05/03/16 15:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-216282/5
Matrix: Water
Analysis Batch: 216282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 12:40	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/16 12:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/16 12:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/16 12:40	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/16 12:40	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/16 12:40	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/16 12:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/16 12:40	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/16 12:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/16 12:40	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/16 12:40	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/16 12:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/16 12:40	1
2-Butanone	ND		15		ug/L			05/03/16 12:40	1
2-Hexanone	ND		2.0		ug/L			05/03/16 12:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/16 12:40	1
Acetone	ND		2.0		ug/L			05/03/16 12:40	1
Acrylonitrile	ND		5.0		ug/L			05/03/16 12:40	1
Benzene	ND		0.20		ug/L			05/03/16 12:40	1
Bromochloromethane	ND		0.20		ug/L			05/03/16 12:40	1
Bromodichloromethane	ND		0.20		ug/L			05/03/16 12:40	1
Bromoform	ND		0.50		ug/L			05/03/16 12:40	1
Bromomethane	ND		1.0		ug/L			05/03/16 12:40	1
Carbon disulfide	ND		0.20		ug/L			05/03/16 12:40	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/16 12:40	1
Chlorobenzene	ND		0.20		ug/L			05/03/16 12:40	1
Chloroethane	ND		0.50		ug/L			05/03/16 12:40	1
Chloroform	ND		0.20		ug/L			05/03/16 12:40	1
Chloromethane	ND		0.30		ug/L			05/03/16 12:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 12:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/16 12:40	1
Dibromochloromethane	ND		0.20		ug/L			05/03/16 12:40	1
Dibromomethane	ND		0.20		ug/L			05/03/16 12:40	1
Ethylbenzene	ND		0.20		ug/L			05/03/16 12:40	1
m,p-Xylene	ND		0.50		ug/L			05/03/16 12:40	1
Methyl iodide	ND		0.50		ug/L			05/03/16 12:40	1
Methylene Chloride	ND		0.50		ug/L			05/03/16 12:40	1
o-Xylene	ND		0.50		ug/L			05/03/16 12:40	1
Styrene	ND		0.50		ug/L			05/03/16 12:40	1
Tetrachloroethene	ND		0.50		ug/L			05/03/16 12:40	1
Toluene	ND		0.20		ug/L			05/03/16 12:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/16 12:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/16 12:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/16 12:40	1
Trichloroethene	ND		0.20		ug/L			05/03/16 12:40	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/16 12:40	1
Vinyl acetate	ND		1.0		ug/L			05/03/16 12:40	1
Vinyl chloride	ND		0.020		ug/L			05/03/16 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 128		05/03/16 12:40	1
4-Bromofluorobenzene (Surr)	100		75 - 120		05/03/16 12:40	1
Dibromofluoromethane (Surr)	96		85 - 115		05/03/16 12:40	1
Toluene-d8 (Surr)	101		75 - 125		05/03/16 12:40	1
Trifluorotoluene (Surr)	92		80 - 127		05/03/16 12:40	1

Lab Sample ID: LCS 580-216282/6
Matrix: Water
Analysis Batch: 216282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	4.86		ug/L		97	75 - 125
1,1,1-Trichloroethane	5.02	4.39		ug/L		88	80 - 140
1,1,2,2-Tetrachloroethane	5.01	3.77		ug/L		75	75 - 125
1,1,2-Trichloroethane	5.02	4.62		ug/L		92	80 - 130
1,1-Dichloroethane	5.00	4.72		ug/L		94	75 - 135
1,1-Dichloroethene	5.04	4.50		ug/L		89	70 - 150
1,2,3-Trichloropropane	5.01	4.21		ug/L		84	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	3.30		ug/L		66	55 - 120
1,2-Dibromoethane	5.01	4.40		ug/L		88	70 - 130
1,2-Dichlorobenzene	5.00	4.47		ug/L		89	80 - 130
1,2-Dichloroethane	5.00	4.95		ug/L		99	80 - 140
1,2-Dichloropropane	5.00	4.78		ug/L		96	80 - 120
1,4-Dichlorobenzene	5.01	4.86		ug/L		97	80 - 120
2-Butanone	25.0	16.5		ug/L		66	20 - 200
2-Hexanone	25.0	21.5		ug/L		86	52 - 160
4-Methyl-2-pentanone	25.0	23.6		ug/L		94	55 - 135
Acetone	25.0	32.1		ug/L		128	30 - 200
Acrylonitrile	50.0	43.7		ug/L		87	65 - 150
Benzene	5.02	5.42		ug/L		108	80 - 120
Bromochloromethane	5.01	4.81		ug/L		96	80 - 125
Bromodichloromethane	5.02	4.64		ug/L		93	80 - 125
Bromoform	5.02	4.35		ug/L		87	65 - 130
Bromomethane	5.01	5.38		ug/L		107	70 - 135
Carbon disulfide	5.02	4.82		ug/L		96	65 - 160
Carbon tetrachloride	5.01	4.28		ug/L		86	75 - 140
Chlorobenzene	5.02	4.90		ug/L		98	80 - 120
Chloroethane	5.02	5.09		ug/L		102	75 - 140
Chloroform	5.00	4.83		ug/L		97	80 - 130
Chloromethane	5.02	5.99		ug/L		119	50 - 140
cis-1,2-Dichloroethene	5.01	5.25		ug/L		105	80 - 130
cis-1,3-Dichloropropene	5.01	4.75		ug/L		95	70 - 120
Dibromochloromethane	5.01	4.31		ug/L		86	70 - 120
Dibromomethane	5.02	4.50		ug/L		90	80 - 130
Ethylbenzene	5.02	4.86		ug/L		97	80 - 125
m,p-Xylene	5.01	5.10		ug/L		102	80 - 130
Methyl iodide	5.02	4.70		ug/L		94	60 - 160
Methylene Chloride	5.02	5.32		ug/L		106	60 - 145
o-Xylene	5.01	4.95		ug/L		99	80 - 120
Styrene	5.01	4.63		ug/L		93	75 - 130
Tetrachloroethene	5.01	4.38		ug/L		87	40 - 180
Toluene	5.00	4.81		ug/L		96	80 - 120
trans-1,2-Dichloroethene	5.01	4.88		ug/L		97	80 - 140
trans-1,3-Dichloropropene	5.00	4.55		ug/L		91	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216282/6
Matrix: Water
Analysis Batch: 216282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	4.66		ug/L		93	40 - 140
Trichloroethene	5.01	4.44		ug/L		89	80 - 130
Trichlorofluoromethane	5.00	4.99		ug/L		100	30 - 180
Vinyl acetate	12.5	11.2		ug/L		89	30 - 200
Vinyl chloride	5.03	5.15		ug/L		102	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 128*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*85 - 115*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*89*		*80 - 127*

Lab Sample ID: LCSD 580-216282/7
Matrix: Water
Analysis Batch: 216282

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
1,1,1,2-Tetrachloroethane	5.02	5.23		ug/L		104	75 - 125	7	20
1,1,1-Trichloroethane	5.02	4.28		ug/L		85	80 - 140	3	20
1,1,2,2-Tetrachloroethane	5.01	3.88		ug/L		78	75 - 125	3	20
1,1,2-Trichloroethane	5.02	5.24		ug/L		104	80 - 130	13	20
1,1-Dichloroethane	5.00	4.59		ug/L		92	75 - 135	3	20
1,1-Dichloroethene	5.04	4.47		ug/L		89	70 - 150	1	20
1,2,3-Trichloropropane	5.01	4.45		ug/L		89	75 - 120	6	20
1,2-Dibromo-3-Chloropropane	5.01	3.10		ug/L		62	55 - 120	6	20
1,2-Dibromoethane	5.01	5.13		ug/L		102	70 - 130	15	20
1,2-Dichlorobenzene	5.00	4.54		ug/L		91	80 - 130	2	20
1,2-Dichloroethane	5.00	4.73		ug/L		95	80 - 140	4	20
1,2-Dichloropropane	5.00	4.76		ug/L		95	80 - 120	1	20
1,4-Dichlorobenzene	5.01	4.92		ug/L		98	80 - 120	1	20
2-Butanone	25.0	22.2	*	ug/L		89	20 - 200	29	20
2-Hexanone	25.0	23.3		ug/L		93	52 - 160	8	20
4-Methyl-2-pentanone	25.0	25.7		ug/L		103	55 - 135	9	20
Acetone	25.0	31.7		ug/L		127	30 - 200	1	20
Acrylonitrile	50.0	47.4		ug/L		95	65 - 150	8	20
Benzene	5.02	5.36		ug/L		107	80 - 120	1	20
Bromochloromethane	5.01	4.49		ug/L		90	80 - 125	7	20
Bromodichloromethane	5.02	4.49		ug/L		90	80 - 125	3	20
Bromoform	5.02	4.49		ug/L		89	65 - 130	3	20
Bromomethane	5.01	4.89		ug/L		98	70 - 135	9	20
Carbon disulfide	5.02	4.66		ug/L		93	65 - 160	4	20
Carbon tetrachloride	5.01	4.25		ug/L		85	75 - 140	1	20
Chlorobenzene	5.02	4.95		ug/L		99	80 - 120	1	20
Chloroethane	5.02	5.10		ug/L		102	75 - 140	0	20
Chloroform	5.00	4.76		ug/L		95	80 - 130	2	20
Chloromethane	5.02	5.46		ug/L		109	50 - 140	9	20
cis-1,2-Dichloroethene	5.01	5.24		ug/L		105	80 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-216282/7
Matrix: Water
Analysis Batch: 216282

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
cis-1,3-Dichloropropene			5.01	5.48		ug/L		109	70 - 120	14	20
Dibromochloromethane			5.01	4.80		ug/L		96	70 - 120	11	20
Dibromomethane			5.02	4.16		ug/L		83	80 - 130	8	20
Ethylbenzene			5.02	5.10		ug/L		102	80 - 125	5	20
m,p-Xylene			5.01	5.54		ug/L		111	80 - 130	8	20
Methyl iodide			5.02	4.52		ug/L		90	60 - 160	4	20
Methylene Chloride			5.02	5.03		ug/L		100	60 - 145	6	20
o-Xylene			5.01	6.20	*	ug/L		124	80 - 120	22	20
Styrene			5.01	5.17		ug/L		103	75 - 130	11	20
Tetrachloroethene			5.01	5.24		ug/L		104	40 - 180	18	20
Toluene			5.00	5.65		ug/L		113	80 - 120	16	20
trans-1,2-Dichloroethene			5.01	4.82		ug/L		96	80 - 140	1	20
trans-1,3-Dichloropropene			5.00	5.12		ug/L		102	60 - 140	12	20
trans-1,4-Dichloro-2-butene			5.00	4.04		ug/L		81	40 - 140	14	20
Trichloroethene			5.01	4.60		ug/L		92	80 - 130	4	20
Trichlorofluoromethane			5.00	4.45		ug/L		89	30 - 180	11	20
Vinyl acetate			12.5	8.17	*	ug/L		65	30 - 200	31	20
Vinyl chloride			5.03	4.98		ug/L		99	65 - 140	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 128*
4-Bromofluorobenzene (Surr)	*114*		*75 - 120*
Dibromofluoromethane (Surr)	*95*		*85 - 115*
Toluene-d8 (Surr)	*117*		*75 - 125*
Trifluorotoluene (Surr)	*94*		*80 - 127*

Lab Sample ID: MB 580-216372/5
Matrix: Water
Analysis Batch: 216372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 10:41	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/16 10:41	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/16 10:41	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/16 10:41	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/16 10:41	1
1,1-Dichloroethene	ND		0.10		ug/L			05/04/16 10:41	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/16 10:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/04/16 10:41	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/16 10:41	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/16 10:41	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/16 10:41	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/16 10:41	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/16 10:41	1
2-Butanone	ND		15		ug/L			05/04/16 10:41	1
2-Hexanone	ND		2.0		ug/L			05/04/16 10:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/04/16 10:41	1
Acetone	ND		2.0		ug/L			05/04/16 10:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-216372/5
Matrix: Water
Analysis Batch: 216372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0		ug/L			05/04/16 10:41	1
Benzene	ND		0.20		ug/L			05/04/16 10:41	1
Bromochloromethane	ND		0.20		ug/L			05/04/16 10:41	1
Bromodichloromethane	ND		0.20		ug/L			05/04/16 10:41	1
Bromoform	ND		0.50		ug/L			05/04/16 10:41	1
Bromomethane	ND		1.0		ug/L			05/04/16 10:41	1
Carbon disulfide	ND		0.20		ug/L			05/04/16 10:41	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/16 10:41	1
Chlorobenzene	ND		0.20		ug/L			05/04/16 10:41	1
Chloroethane	ND		0.50		ug/L			05/04/16 10:41	1
Chloroform	ND		0.20		ug/L			05/04/16 10:41	1
Chloromethane	ND		0.30		ug/L			05/04/16 10:41	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 10:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/16 10:41	1
Dibromochloromethane	ND		0.20		ug/L			05/04/16 10:41	1
Dibromomethane	ND		0.20		ug/L			05/04/16 10:41	1
Ethylbenzene	ND		0.20		ug/L			05/04/16 10:41	1
m,p-Xylene	ND		0.50		ug/L			05/04/16 10:41	1
Methyl iodide	ND		0.50		ug/L			05/04/16 10:41	1
Methylene Chloride	ND		0.50		ug/L			05/04/16 10:41	1
o-Xylene	ND		0.50		ug/L			05/04/16 10:41	1
Styrene	ND		0.50		ug/L			05/04/16 10:41	1
Tetrachloroethene	ND		0.50		ug/L			05/04/16 10:41	1
Toluene	ND		0.20		ug/L			05/04/16 10:41	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/16 10:41	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/16 10:41	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/16 10:41	1
Trichloroethene	ND		0.20		ug/L			05/04/16 10:41	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/16 10:41	1
Vinyl acetate	ND		1.0		ug/L			05/04/16 10:41	1
Vinyl chloride	ND		0.020		ug/L			05/04/16 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 128*		*05/04/16 10:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*		*05/04/16 10:41*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*05/04/16 10:41*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/04/16 10:41*	*1*
Trifluorotoluene (Surr)	*90*		*80 - 127*		*05/04/16 10:41*	*1*

Lab Sample ID: LCS 580-216372/6
Matrix: Water
Analysis Batch: 216372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	4.62		ug/L		92	75 - 125
1,1,1-Trichloroethane	5.02	4.25		ug/L		85	80 - 140
1,1,2,2-Tetrachloroethane	5.01	3.97		ug/L		79	75 - 125
1,1,2-Trichloroethane	5.02	4.56		ug/L		91	80 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216372/6
Matrix: Water
Analysis Batch: 216372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	5.00	4.51		ug/L		90	75 - 135
1,1-Dichloroethene	5.04	4.35		ug/L		86	70 - 150
1,2,3-Trichloropropane	5.01	4.14		ug/L		83	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	3.27		ug/L		65	55 - 120
1,2-Dibromoethane	5.01	4.48		ug/L		89	70 - 130
1,2-Dichlorobenzene	5.00	4.35		ug/L		87	80 - 130
1,2-Dichloroethane	5.00	4.78		ug/L		95	80 - 140
1,2-Dichloropropane	5.00	4.71		ug/L		94	80 - 120
1,4-Dichlorobenzene	5.01	4.68		ug/L		93	80 - 120
2-Butanone	25.0	22.8		ug/L		91	20 - 200
2-Hexanone	25.0	21.5		ug/L		86	52 - 160
4-Methyl-2-pentanone	25.0	21.9		ug/L		87	55 - 135
Acetone	25.0	18.6		ug/L		74	30 - 200
Acrylonitrile	50.0	34.7		ug/L		69	65 - 150
Benzene	5.02	5.20		ug/L		104	80 - 120
Bromochloromethane	5.01	4.81		ug/L		96	80 - 125
Bromodichloromethane	5.02	4.45		ug/L		89	80 - 125
Bromoform	5.02	4.17		ug/L		83	65 - 130
Bromomethane	5.01	5.38		ug/L		107	70 - 135
Carbon disulfide	5.02	4.55		ug/L		90	65 - 160
Carbon tetrachloride	5.01	4.21		ug/L		84	75 - 140
Chlorobenzene	5.02	4.78		ug/L		95	80 - 120
Chloroethane	5.02	4.91		ug/L		98	75 - 140
Chloroform	5.00	4.66		ug/L		93	80 - 130
Chloromethane	5.02	5.10		ug/L		102	50 - 140
cis-1,2-Dichloroethene	5.01	4.95		ug/L		99	80 - 130
cis-1,3-Dichloropropene	5.01	4.77		ug/L		95	70 - 120
Dibromochloromethane	5.01	4.28		ug/L		85	70 - 120
Dibromomethane	5.02	4.39		ug/L		88	80 - 130
Ethylbenzene	5.02	4.58		ug/L		91	80 - 125
m,p-Xylene	5.01	4.90		ug/L		98	80 - 130
Methyl iodide	5.02	4.51		ug/L		90	60 - 160
Methylene Chloride	5.02	4.87		ug/L		97	60 - 145
o-Xylene	5.01	4.56		ug/L		91	80 - 120
Styrene	5.01	4.61		ug/L		92	75 - 130
Tetrachloroethene	5.01	4.52		ug/L		90	40 - 180
Toluene	5.00	4.65		ug/L		93	80 - 120
trans-1,2-Dichloroethene	5.01	4.64		ug/L		93	80 - 140
trans-1,3-Dichloropropene	5.00	4.58		ug/L		92	60 - 140
trans-1,4-Dichloro-2-butene	5.00	3.82		ug/L		76	40 - 140
Trichloroethene	5.01	4.40		ug/L		88	80 - 130
Trichlorofluoromethane	5.00	4.67		ug/L		93	30 - 180
Vinyl acetate	12.5	11.6		ug/L		93	30 - 200
Vinyl chloride	5.03	4.76		ug/L		95	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216372/6
Matrix: Water
Analysis Batch: 216372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*94*		*80 - 127*

Lab Sample ID: LCSD 580-216372/7
Matrix: Water
Analysis Batch: 216372

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
1,1,1,2-Tetrachloroethane	5.02	4.68		ug/L		93	75 - 125	1	20
1,1,1-Trichloroethane	5.02	4.33		ug/L		86	80 - 140	2	20
1,1,2,2-Tetrachloroethane	5.01	4.68		ug/L		93	75 - 125	16	20
1,1,2-Trichloroethane	5.02	4.58		ug/L		91	80 - 130	1	20
1,1-Dichloroethane	5.00	4.53		ug/L		91	75 - 135	1	20
1,1-Dichloroethene	5.04	4.37		ug/L		87	70 - 150	0	20
1,2,3-Trichloropropane	5.01	4.35		ug/L		87	75 - 120	5	20
1,2-Dibromo-3-Chloropropane	5.01	4.12	*	ug/L		82	55 - 120	23	20
1,2-Dibromoethane	5.01	4.59		ug/L		92	70 - 130	2	20
1,2-Dichlorobenzene	5.00	4.74		ug/L		95	80 - 130	9	20
1,2-Dichloroethane	5.00	4.92		ug/L		98	80 - 140	3	20
1,2-Dichloropropane	5.00	4.79		ug/L		96	80 - 120	2	20
1,4-Dichlorobenzene	5.01	4.81		ug/L		96	80 - 120	3	20
2-Butanone	25.0	22.0		ug/L		88	20 - 200	4	20
2-Hexanone	25.0	23.5		ug/L		94	52 - 160	9	20
4-Methyl-2-pentanone	25.0	24.6		ug/L		98	55 - 135	12	20
Acetone	25.0	17.7		ug/L		71	30 - 200	5	20
Acrylonitrile	50.0	36.5		ug/L		73	65 - 150	5	20
Benzene	5.02	5.28		ug/L		105	80 - 120	2	20
Bromochloromethane	5.01	4.85		ug/L		97	80 - 125	1	20
Bromodichloromethane	5.02	4.56		ug/L		91	80 - 125	2	20
Bromoform	5.02	4.08		ug/L		81	65 - 130	2	20
Bromomethane	5.01	5.37		ug/L		107	70 - 135	0	20
Carbon disulfide	5.02	4.56		ug/L		91	65 - 160	0	20
Carbon tetrachloride	5.01	4.26		ug/L		85	75 - 140	1	20
Chlorobenzene	5.02	4.76		ug/L		95	80 - 120	1	20
Chloroethane	5.02	4.93		ug/L		98	75 - 140	0	20
Chloroform	5.00	4.72		ug/L		94	80 - 130	1	20
Chloromethane	5.02	5.38		ug/L		107	50 - 140	5	20
cis-1,2-Dichloroethene	5.01	5.12		ug/L		102	80 - 130	3	20
cis-1,3-Dichloropropene	5.01	4.83		ug/L		96	70 - 120	1	20
Dibromochloromethane	5.01	4.33		ug/L		86	70 - 120	1	20
Dibromomethane	5.02	4.49		ug/L		90	80 - 130	2	20
Ethylbenzene	5.02	4.64		ug/L		92	80 - 125	1	20
m,p-Xylene	5.01	4.75		ug/L		95	80 - 130	3	20
Methyl iodide	5.02	4.58		ug/L		91	60 - 160	1	20
Methylene Chloride	5.02	4.96		ug/L		99	60 - 145	2	20
o-Xylene	5.01	5.01		ug/L		100	80 - 120	9	20
Styrene	5.01	4.51		ug/L		90	75 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-216372/7
Matrix: Water
Analysis Batch: 216372

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
Tetrachloroethene			5.01	4.37		ug/L		87	40 - 180	3	20
Toluene			5.00	4.65		ug/L		93	80 - 120	0	20
trans-1,2-Dichloroethene			5.01	4.81		ug/L		96	80 - 140	3	20
trans-1,3-Dichloropropene			5.00	4.72		ug/L		94	60 - 140	3	20
trans-1,4-Dichloro-2-butene			5.00	3.80		ug/L		76	40 - 140	0	20
Trichloroethene			5.01	4.57		ug/L		91	80 - 130	4	20
Trichlorofluoromethane			5.00	4.87		ug/L		97	30 - 180	4	20
Vinyl acetate			12.5	12.0		ug/L		96	30 - 200	3	20
Vinyl chloride			5.03	4.88		ug/L		97	65 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 128*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*85 - 115*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*94*		*80 - 127*

Lab Sample ID: MB 580-216725/5
Matrix: Water
Analysis Batch: 216725

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 10:30	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/09/16 10:30	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/09/16 10:30	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/09/16 10:30	1
1,1-Dichloroethane	ND		0.20		ug/L			05/09/16 10:30	1
1,1-Dichloroethene	ND		0.10		ug/L			05/09/16 10:30	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/09/16 10:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/09/16 10:30	1
1,2-Dibromoethane	ND		0.10		ug/L			05/09/16 10:30	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/09/16 10:30	1
1,2-Dichloroethane	ND		0.20		ug/L			05/09/16 10:30	1
1,2-Dichloropropane	ND		0.20		ug/L			05/09/16 10:30	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/09/16 10:30	1
2-Butanone	ND		15		ug/L			05/09/16 10:30	1
2-Hexanone	ND		2.0		ug/L			05/09/16 10:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/09/16 10:30	1
Acetone	ND		2.0		ug/L			05/09/16 10:30	1
Acrylonitrile	ND		5.0		ug/L			05/09/16 10:30	1
Benzene	ND		0.20		ug/L			05/09/16 10:30	1
Bromochloromethane	ND		0.20		ug/L			05/09/16 10:30	1
Bromodichloromethane	ND		0.20		ug/L			05/09/16 10:30	1
Bromoform	ND		0.50		ug/L			05/09/16 10:30	1
Bromomethane	ND		1.0		ug/L			05/09/16 10:30	1
Carbon disulfide	ND		0.20		ug/L			05/09/16 10:30	1
Carbon tetrachloride	ND		0.20		ug/L			05/09/16 10:30	1
Chlorobenzene	ND		0.20		ug/L			05/09/16 10:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-216725/5
Matrix: Water
Analysis Batch: 216725

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.50		ug/L			05/09/16 10:30	1
Chloroform	ND		0.20		ug/L			05/09/16 10:30	1
Chloromethane	ND		0.30		ug/L			05/09/16 10:30	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 10:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/09/16 10:30	1
Dibromochloromethane	ND		0.20		ug/L			05/09/16 10:30	1
Dibromomethane	ND		0.20		ug/L			05/09/16 10:30	1
Ethylbenzene	ND		0.20		ug/L			05/09/16 10:30	1
m,p-Xylene	ND		0.50		ug/L			05/09/16 10:30	1
Methyl iodide	ND		0.50		ug/L			05/09/16 10:30	1
Methylene Chloride	ND		0.50		ug/L			05/09/16 10:30	1
o-Xylene	ND		0.50		ug/L			05/09/16 10:30	1
Styrene	ND		0.50		ug/L			05/09/16 10:30	1
Tetrachloroethene	ND		0.50		ug/L			05/09/16 10:30	1
Toluene	ND		0.20		ug/L			05/09/16 10:30	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/09/16 10:30	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/09/16 10:30	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/09/16 10:30	1
Trichloroethene	ND		0.20		ug/L			05/09/16 10:30	1
Trichlorofluoromethane	ND		0.50		ug/L			05/09/16 10:30	1
Vinyl acetate	ND		1.0		ug/L			05/09/16 10:30	1
Vinyl chloride	ND		0.020		ug/L			05/09/16 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*05/09/16 10:30*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*05/09/16 10:30*	*1*
Dibromofluoromethane (Surr)	*98*		*85 - 115*		*05/09/16 10:30*	*1*
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/09/16 10:30*	*1*
Trifluorotoluene (Surr)	*87*		*80 - 127*		*05/09/16 10:30*	*1*

Lab Sample ID: LCS 580-216725/6
Matrix: Water
Analysis Batch: 216725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	4.44		ug/L		88	75 - 125
1,1,1-Trichloroethane	5.02	4.46		ug/L		89	80 - 140
1,1,2,2-Tetrachloroethane	5.01	4.11		ug/L		82	75 - 125
1,1,2-Trichloroethane	5.02	4.19		ug/L		84	80 - 130
1,1-Dichloroethane	5.00	4.67		ug/L		93	75 - 135
1,1-Dichloroethene	5.04	4.61		ug/L		91	70 - 150
1,2,3-Trichloropropane	5.01	3.52	*	ug/L		70	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	3.36		ug/L		67	55 - 120
1,2-Dibromoethane	5.01	4.06		ug/L		81	70 - 130
1,2-Dichlorobenzene	5.00	4.33		ug/L		87	80 - 130
1,2-Dichloroethane	5.00	4.95		ug/L		99	80 - 140
1,2-Dichloropropane	5.00	4.75		ug/L		95	80 - 120
1,4-Dichlorobenzene	5.01	4.71		ug/L		94	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216725/6
Matrix: Water
Analysis Batch: 216725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	25.0	23.5		ug/L		94	20 - 200
2-Hexanone	25.0	20.1		ug/L		80	52 - 160
4-Methyl-2-pentanone	25.0	20.5		ug/L		82	55 - 135
Acetone	25.0	15.5		ug/L		62	30 - 200
Acrylonitrile	50.0	42.8		ug/L		86	65 - 150
Benzene	5.02	5.40		ug/L		108	80 - 120
Bromochloromethane	5.01	4.88		ug/L		97	80 - 125
Bromodichloromethane	5.02	4.55		ug/L		91	80 - 125
Bromoform	5.02	3.47		ug/L		69	65 - 130
Bromomethane	5.01	5.19		ug/L		104	70 - 135
Carbon disulfide	5.02	4.82		ug/L		96	65 - 160
Carbon tetrachloride	5.01	4.38		ug/L		87	75 - 140
Chlorobenzene	5.02	4.53		ug/L		90	80 - 120
Chloroethane	5.02	5.38		ug/L		107	75 - 140
Chloroform	5.00	4.84		ug/L		97	80 - 130
Chloromethane	5.02	5.73		ug/L		114	50 - 140
cis-1,2-Dichloroethene	5.01	5.18		ug/L		103	80 - 130
cis-1,3-Dichloropropene	5.01	4.38		ug/L		87	70 - 120
Dibromochloromethane	5.01	3.80		ug/L		76	70 - 120
Dibromomethane	5.02	4.42		ug/L		88	80 - 130
Ethylbenzene	5.02	4.36		ug/L		87	80 - 125
m,p-Xylene	5.01	4.40		ug/L		88	80 - 130
Methyl iodide	5.02	4.65		ug/L		93	60 - 160
Methylene Chloride	5.02	5.33		ug/L		106	60 - 145
o-Xylene	5.01	4.63		ug/L		92	80 - 120
Styrene	5.01	4.10		ug/L		82	75 - 130
Tetrachloroethene	5.01	4.23		ug/L		84	40 - 180
Toluene	5.00	4.47		ug/L		89	80 - 120
trans-1,2-Dichloroethene	5.01	4.86		ug/L		97	80 - 140
trans-1,3-Dichloropropene	5.00	4.16		ug/L		83	60 - 140
trans-1,4-Dichloro-2-butene	5.00	2.92		ug/L		59	40 - 140
Trichloroethene	5.01	4.52		ug/L		90	80 - 130
Trichlorofluoromethane	5.00	4.97		ug/L		99	30 - 180
Vinyl acetate	12.5	9.27		ug/L		74	30 - 200
Vinyl chloride	5.03	5.16		ug/L		103	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 128*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*93*		*75 - 125*
Trifluorotoluene (Surr)	*85*		*80 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-216725/7
Matrix: Water
Analysis Batch: 216725

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
1,1,1,2-Tetrachloroethane	5.02	4.51		ug/L		90	75 - 125	1	20
1,1,1-Trichloroethane	5.02	4.61		ug/L		92	80 - 140	3	20
1,1,2,2-Tetrachloroethane	5.01	4.25		ug/L		85	75 - 125	3	20
1,1,2-Trichloroethane	5.02	3.63	*	ug/L		72	80 - 130	14	20
1,1-Dichloroethane	5.00	4.78		ug/L		96	75 - 135	2	20
1,1-Dichloroethene	5.04	4.56		ug/L		90	70 - 150	1	20
1,2,3-Trichloropropane	5.01	3.79		ug/L		76	75 - 120	7	20
1,2-Dibromo-3-Chloropropane	5.01	2.77		ug/L		55	55 - 120	19	20
1,2-Dibromoethane	5.01	3.14	*	ug/L		63	70 - 130	25	20
1,2-Dichlorobenzene	5.00	4.20		ug/L		84	80 - 130	3	20
1,2-Dichloroethane	5.00	4.81		ug/L		96	80 - 140	3	20
1,2-Dichloropropane	5.00	4.63		ug/L		92	80 - 120	3	20
1,4-Dichlorobenzene	5.01	4.53		ug/L		90	80 - 120	4	20
2-Butanone	25.0	27.2		ug/L		109	20 - 200	14	20
2-Hexanone	25.0	18.2		ug/L		73	52 - 160	10	20
4-Methyl-2-pentanone	25.0	20.6		ug/L		82	55 - 135	0	20
Acetone	25.0	17.7		ug/L		71	30 - 200	14	20
Acrylonitrile	50.0	45.0		ug/L		90	65 - 150	5	20
Benzene	5.02	5.32		ug/L		106	80 - 120	1	20
Bromochloromethane	5.01	4.80		ug/L		96	80 - 125	2	20
Bromodichloromethane	5.02	4.96		ug/L		99	80 - 125	9	20
Bromoform	5.02	3.35		ug/L		67	65 - 130	4	20
Bromomethane	5.01	5.79		ug/L		116	70 - 135	11	20
Carbon disulfide	5.02	4.94		ug/L		98	65 - 160	2	20
Carbon tetrachloride	5.01	4.94		ug/L		99	75 - 140	12	20
Chlorobenzene	5.02	4.48		ug/L		89	80 - 120	1	20
Chloroethane	5.02	5.58		ug/L		111	75 - 140	3	20
Chloroform	5.00	4.92		ug/L		98	80 - 130	2	20
Chloromethane	5.02	6.21		ug/L		124	50 - 140	8	20
cis-1,2-Dichloroethene	5.01	5.49		ug/L		110	80 - 130	6	20
cis-1,3-Dichloropropene	5.01	4.31		ug/L		86	70 - 120	2	20
Dibromochloromethane	5.01	4.03		ug/L		81	70 - 120	6	20
Dibromomethane	5.02	4.59		ug/L		91	80 - 130	4	20
Ethylbenzene	5.02	4.44		ug/L		88	80 - 125	2	20
m,p-Xylene	5.01	4.55		ug/L		91	80 - 130	3	20
Methyl iodide	5.02	4.85		ug/L		97	60 - 160	4	20
Methylene Chloride	5.02	5.19		ug/L		103	60 - 145	3	20
o-Xylene	5.01	4.79		ug/L		96	80 - 120	3	20
Styrene	5.01	4.23		ug/L		85	75 - 130	3	20
Tetrachloroethene	5.01	3.57		ug/L		71	40 - 180	17	20
Toluene	5.00	4.28		ug/L		86	80 - 120	4	20
trans-1,2-Dichloroethene	5.01	4.99		ug/L		100	80 - 140	3	20
trans-1,3-Dichloropropene	5.00	4.34		ug/L		87	60 - 140	4	20
trans-1,4-Dichloro-2-butene	5.00	3.24		ug/L		65	40 - 140	10	20
Trichloroethene	5.01	4.64		ug/L		93	80 - 130	2	20
Trichlorofluoromethane	5.00	5.23		ug/L		104	30 - 180	5	20
Vinyl acetate	12.5	10.8		ug/L		87	30 - 200	15	20
Vinyl chloride	5.03	5.42		ug/L		108	65 - 140	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 128*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*
Dibromofluoromethane (Surr)	*100*		*85 - 115*
Toluene-d8 (Surr)	*91*		*75 - 125*
Trifluorotoluene (Surr)	*87*		*80 - 127*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-216322/21-A
Matrix: Water
Analysis Batch: 216431

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/03/16 15:05	05/04/16 13:53	1
Iron	ND		0.30		mg/L		05/03/16 15:05	05/04/16 13:53	1
Magnesium	ND		1.1		mg/L		05/03/16 15:05	05/04/16 13:53	1
Manganese	ND		0.020		mg/L		05/03/16 15:05	05/04/16 13:53	1
Potassium	ND		3.3		mg/L		05/03/16 15:05	05/04/16 13:53	1
Sodium	ND		2.0		mg/L		05/03/16 15:05	05/04/16 13:53	1

Lab Sample ID: LCS 580-216322/22-A
Matrix: Water
Analysis Batch: 216431

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.2		mg/L		101	80 - 120
Iron	22.0	21.6		mg/L		98	80 - 120
Magnesium	20.0	19.8		mg/L		99	80 - 120
Manganese	1.00	0.980		mg/L		98	80 - 120
Potassium	20.0	20.6		mg/L		103	80 - 120
Sodium	20.0	19.8		mg/L		99	80 - 120

Lab Sample ID: LCSD 580-216322/23-A
Matrix: Water
Analysis Batch: 216431

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216322

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.2		mg/L		101	80 - 120	0	20
Iron	22.0	21.6		mg/L		98	80 - 120	0	20
Magnesium	20.0	19.8		mg/L		99	80 - 120	0	20
Manganese	1.00	0.982		mg/L		98	80 - 120	0	20
Potassium	20.0	20.6		mg/L		103	80 - 120	0	20
Sodium	20.0	19.9		mg/L		99	80 - 120	0	20

Lab Sample ID: LCSSRM 580-216322/24-A
Matrix: Water
Analysis Batch: 216431

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216322

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	19.9		mg/L		100	80 - 120
Iron	22.0	21.3		mg/L		97	80 - 120
Magnesium	20.0	19.6		mg/L		98	80 - 120
Manganese	1.00	0.972		mg/L		97	80 - 120
Potassium	20.0	20.4		mg/L		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 580-216322/24-A
Matrix: Water
Analysis Batch: 216431

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216322

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	20.0	19.7		mg/L		99	80 - 120

Lab Sample ID: MB 580-216383/19-A
Matrix: Water
Analysis Batch: 216472

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/04/16 09:37	05/04/16 17:01	1
Iron	ND		0.30		mg/L		05/04/16 09:37	05/04/16 17:01	1
Magnesium	ND		1.1		mg/L		05/04/16 09:37	05/04/16 17:01	1
Manganese	ND		0.020		mg/L		05/04/16 09:37	05/04/16 17:01	1
Potassium	ND		3.3		mg/L		05/04/16 09:37	05/04/16 17:01	1
Sodium	ND		2.0		mg/L		05/04/16 09:37	05/04/16 17:01	1

Lab Sample ID: LCS 580-216383/20-A
Matrix: Water
Analysis Batch: 216472

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.2		mg/L		101	80 - 120
Iron	22.0	21.5		mg/L		98	80 - 120
Magnesium	20.0	20.0		mg/L		100	80 - 120
Manganese	1.00	0.975		mg/L		97	80 - 120
Potassium	20.0	20.7		mg/L		103	80 - 120
Sodium	20.0	20.5		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-216383/21-A
Matrix: Water
Analysis Batch: 216472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216383

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.1		mg/L		101	80 - 120	1	20
Iron	22.0	21.5		mg/L		98	80 - 120	0	20
Magnesium	20.0	19.8		mg/L		99	80 - 120	1	20
Manganese	1.00	0.965		mg/L		97	80 - 120	1	20
Potassium	20.0	20.6		mg/L		103	80 - 120	0	20
Sodium	20.0	20.6		mg/L		103	80 - 120	1	20

Lab Sample ID: 580-59160-1 MS
Matrix: Water
Analysis Batch: 216431

Client Sample ID: 0416-21
Prep Type: Dissolved
Prep Batch: 216322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	130		20.0	150	4	mg/L		95	75 - 125
Iron	ND		22.0	21.0		mg/L		95	75 - 125
Magnesium	48		20.0	67.1		mg/L		94	75 - 125
Manganese	ND		1.00	0.949		mg/L		95	75 - 125
Potassium	6.2		20.0	26.6		mg/L		102	75 - 125
Sodium	27		20.0	47.0		mg/L		98	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-59160-1 MSD — **Client Sample ID: 0416-21**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216431 — **Prep Batch: 216322**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	130		20.0	149	4	mg/L		93	75 - 125	0	20
Iron	ND		22.0	21.1		mg/L		96	75 - 125	1	20
Magnesium	48		20.0	66.8		mg/L		93	75 - 125	0	20
Manganese	ND		1.00	0.961		mg/L		96	75 - 125	1	20
Potassium	6.2		20.0	26.7		mg/L		103	75 - 125	0	20
Sodium	27		20.0	47.2		mg/L		99	75 - 125	0	20

Lab Sample ID: 580-59160-1 DU — **Client Sample ID: 0416-21**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216431 — **Prep Batch: 216322**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	130		129		mg/L		1	20
Iron	ND		ND		mg/L		NC	20
Magnesium	48		47.6		mg/L		1	20
Manganese	ND		ND		mg/L		NC	20
Potassium	6.2		6.07		mg/L		2	20
Sodium	27		27.0		mg/L		2	20

Lab Sample ID: 580-59160-7 MS — **Client Sample ID: 0416-02**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216472 — **Prep Batch: 216383**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	69		20.0	89.1		mg/L		100	75 - 125
Iron	ND		22.0	21.2		mg/L		96	75 - 125
Magnesium	43		20.0	62.6		mg/L		99	75 - 125
Manganese	0.26		1.00	1.23		mg/L		97	75 - 125
Potassium	6.7		20.0	27.5		mg/L		104	75 - 125
Sodium	27		20.0	45.6		mg/L		95	75 - 125

Lab Sample ID: 580-59160-7 MSD — **Client Sample ID: 0416-02**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216472 — **Prep Batch: 216383**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	69		20.0	89.6		mg/L		102	75 - 125	1	20
Iron	ND		22.0	21.3		mg/L		97	75 - 125	1	20
Magnesium	43		20.0	63.1		mg/L		102	75 - 125	1	20
Manganese	0.26		1.00	1.24		mg/L		98	75 - 125	1	20
Potassium	6.7		20.0	27.7		mg/L		105	75 - 125	1	20
Sodium	27		20.0	45.8		mg/L		96	75 - 125	0	20

Lab Sample ID: 580-59160-7 DU — **Client Sample ID: 0416-02**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 216472 — **Prep Batch: 216383**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	69		69.3		mg/L		0.3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-59160-7 DU
Matrix: Water
Analysis Batch: 216472

Client Sample ID: 0416-02
Prep Type: Dissolved
Prep Batch: 216383

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	ND		ND		mg/L		NC	20
Magnesium	43		43.1		mg/L		0.7	20
Manganese	0.26		0.264		mg/L		0	20
Potassium	6.7		6.67		mg/L		0.1	20
Sodium	27		26.0		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-216188/21-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Arsenic	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 14:07	1
Barium	ND		0.0012		mg/L		05/02/16 09:52	05/03/16 14:07	1
Beryllium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Cadmium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Chromium	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Cobalt	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Copper	ND		0.0020		mg/L		05/02/16 09:52	05/03/16 14:07	1
Lead	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Nickel	ND		0.0030		mg/L		05/02/16 09:52	05/03/16 14:07	1
Selenium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 14:07	1
Silver	ND		0.00040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Thallium	ND		0.0010		mg/L		05/02/16 09:52	05/03/16 14:07	1
Vanadium	ND		0.0040		mg/L		05/02/16 09:52	05/03/16 14:07	1
Zinc	ND		0.0070		mg/L		05/02/16 09:52	05/03/16 14:07	1

Lab Sample ID: LCS 580-216188/22-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.96		mg/L		99	80 - 120
Arsenic	4.00	4.02		mg/L		100	80 - 120
Barium	4.00	3.93		mg/L		98	80 - 120
Beryllium	0.100	0.105		mg/L		105	80 - 120
Cadmium	0.100	0.104		mg/L		104	80 - 120
Chromium	0.400	0.398		mg/L		100	80 - 120
Cobalt	1.00	0.992		mg/L		99	80 - 120
Copper	0.500	0.495		mg/L		99	80 - 120
Lead	1.00	0.984		mg/L		98	80 - 120
Nickel	1.00	0.997		mg/L		100	80 - 120
Selenium	4.00	4.00		mg/L		100	80 - 120
Silver	0.600	0.607		mg/L		101	80 - 120
Thallium	4.00	3.94		mg/L		98	80 - 120
Vanadium	1.00	1.01		mg/L		101	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-216188/22-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	4.00	4.05		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-216188/23-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.94		mg/L		98	80 - 120	1	20
Arsenic	4.00	3.94		mg/L		99	80 - 120	2	20
Barium	4.00	3.90		mg/L		98	80 - 120	1	20
Beryllium	0.100	0.106		mg/L		106	80 - 120	1	20
Cadmium	0.100	0.0974		mg/L		97	80 - 120	6	20
Chromium	0.400	0.408		mg/L		102	80 - 120	2	20
Cobalt	1.00	0.984		mg/L		98	80 - 120	1	20
Copper	0.500	0.488		mg/L		98	80 - 120	1	20
Lead	1.00	0.979		mg/L		98	80 - 120	1	20
Nickel	1.00	0.980		mg/L		98	80 - 120	2	20
Selenium	4.00	4.00		mg/L		100	80 - 120	0	20
Silver	0.600	0.606		mg/L		101	80 - 120	0	20
Thallium	4.00	3.91		mg/L		98	80 - 120	1	20
Vanadium	1.00	1.01		mg/L		101	80 - 120	0	20
Zinc	4.00	3.90		mg/L		98	80 - 120	4	20

Lab Sample ID: 580-59160-3 MS
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-15
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.13		mg/L		104	80 - 120
Arsenic	0.0053		4.00	4.22		mg/L		105	80 - 120
Barium	0.11		4.00	4.28		mg/L		104	80 - 120
Beryllium	ND		0.100	0.108		mg/L		108	80 - 120
Cadmium	ND		0.100	0.108		mg/L		108	80 - 120
Chromium	ND		0.400	0.435		mg/L		109	80 - 120
Cobalt	ND		1.00	1.05		mg/L		105	80 - 120
Copper	0.0023		0.500	0.531		mg/L		106	80 - 120
Lead	ND		1.00	1.02		mg/L		102	80 - 120
Nickel	0.0090		1.00	1.06		mg/L		105	80 - 120
Selenium	ND		4.00	4.32		mg/L		108	80 - 120
Silver	ND		0.600	0.635		mg/L		106	80 - 120
Thallium	ND		4.00	4.12		mg/L		103	80 - 120
Vanadium	ND		1.00	1.08		mg/L		108	80 - 120
Zinc	ND		4.00	4.14		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-59160-3 MSD
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-15
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.99		mg/L		100	80 - 120	4	20
Arsenic	0.0053		4.00	4.07		mg/L		102	80 - 120	4	20
Barium	0.11		4.00	4.11		mg/L		100	80 - 120	4	20
Beryllium	ND		0.100	0.101		mg/L		101	80 - 120	6	20
Cadmium	ND		0.100	0.103		mg/L		103	80 - 120	5	20
Chromium	ND		0.400	0.410		mg/L		102	80 - 120	6	20
Cobalt	ND		1.00	0.998		mg/L		100	80 - 120	5	20
Copper	0.0023		0.500	0.498		mg/L		99	80 - 120	6	20
Lead	ND		1.00	0.997		mg/L		100	80 - 120	3	20
Nickel	0.0090		1.00	1.02		mg/L		101	80 - 120	4	20
Selenium	ND		4.00	4.10		mg/L		103	80 - 120	5	20
Silver	ND		0.600	0.612		mg/L		102	80 - 120	4	20
Thallium	ND		4.00	4.01		mg/L		100	80 - 120	3	20
Vanadium	ND		1.00	1.04		mg/L		104	80 - 120	4	20
Zinc	ND		4.00	4.02		mg/L		100	80 - 120	3	20

Lab Sample ID: 580-59160-3 DU
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-15
Prep Type: Total Recoverable
Prep Batch: 216188

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0053		0.00526		mg/L		0.08	20
Barium	0.11		0.112		mg/L		3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0023		0.00247		mg/L		6	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0090		0.00961		mg/L		7	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-216197/21-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Arsenic	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:18	1
Barium	ND		0.0012		mg/L		05/02/16 10:47	05/03/16 17:18	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-216197/21-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 17:18	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 17:18	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:18	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:18	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 17:18	1

Lab Sample ID: LCS 580-216197/22-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.00		mg/L		100	80 - 120
Arsenic	4.00	4.03		mg/L		101	80 - 120
Barium	4.00	4.06		mg/L		101	80 - 120
Beryllium	0.100	0.0984		mg/L		98	80 - 120
Cadmium	0.100	0.0974		mg/L		97	80 - 120
Chromium	0.400	0.410		mg/L		102	80 - 120
Cobalt	1.00	0.993		mg/L		99	80 - 120
Copper	0.500	0.484		mg/L		97	80 - 120
Lead	1.00	0.989		mg/L		99	80 - 120
Nickel	1.00	1.02		mg/L		102	80 - 120
Selenium	4.00	4.01		mg/L		100	80 - 120
Silver	0.600	0.611		mg/L		102	80 - 120
Thallium	4.00	3.94		mg/L		99	80 - 120
Vanadium	1.00	1.00		mg/L		100	80 - 120
Zinc	4.00	4.07		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-216197/23-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.98		mg/L		99	80 - 120	1	20
Arsenic	4.00	4.00		mg/L		100	80 - 120	1	20
Barium	4.00	4.00		mg/L		100	80 - 120	1	20
Beryllium	0.100	0.102		mg/L		102	80 - 120	3	20
Cadmium	0.100	0.108		mg/L		108	80 - 120	10	20
Chromium	0.400	0.409		mg/L		102	80 - 120	0	20
Cobalt	1.00	0.992		mg/L		99	80 - 120	0	20
Copper	0.500	0.476		mg/L		95	80 - 120	2	20
Lead	1.00	0.988		mg/L		99	80 - 120	0	20
Nickel	1.00	0.988		mg/L		99	80 - 120	3	20
Selenium	4.00	4.02		mg/L		101	80 - 120	0	20
Silver	0.600	0.607		mg/L		101	80 - 120	1	20
Thallium	4.00	3.95		mg/L		99	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-216197/23-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium			1.00	1.01		mg/L		101	80 - 120	1	20
Zinc			4.00	4.03		mg/L		101	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-216886/3
Matrix: Water
Analysis Batch: 216886

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/09/16 11:32	1
Chloride	ND		0.90		mg/L			05/09/16 11:32	1
Sulfate	ND		1.2		mg/L			05/09/16 11:32	1

Lab Sample ID: LCS 580-216886/4
Matrix: Water
Analysis Batch: 216886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			5.00	5.12		mg/L		102	90 - 110		
Chloride			50.0	47.4		mg/L		95	90 - 110		
Sulfate			50.0	48.8		mg/L		98	90 - 110		

Lab Sample ID: LCSD 580-216886/5
Matrix: Water
Analysis Batch: 216886

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
Fluoride			5.00	5.20		mg/L		104	90 - 110	2	15
Chloride			50.0	46.1		mg/L		92	90 - 110	3	15
Sulfate			50.0	48.8		mg/L		98	90 - 110	0	15

Lab Sample ID: 580-59160-19 MS
Matrix: Water
Analysis Batch: 216886

Client Sample ID: 0416-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND	F1	5.00	5.89	F1	mg/L		118	90 - 110		
Chloride	61		50.0	115		mg/L		107	90 - 110		
Sulfate	31	F1	50.0	89.7	F1	mg/L		118	90 - 110		

Lab Sample ID: 580-59160-19 MSD
Matrix: Water
Analysis Batch: 216886

Client Sample ID: 0416-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1	5.00	5.41		mg/L		108	90 - 110	8	15
Chloride	61		50.0	115		mg/L		109	90 - 110	1	15
Sulfate	31	F1	50.0	93.3	F1	mg/L		125	90 - 110	4	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-217005/3
Matrix: Water
Analysis Batch: 217005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/11/16 09:39	1
Chloride	ND		0.90		mg/L			05/11/16 09:39	1
Sulfate	ND		1.2		mg/L			05/11/16 09:39	1

Lab Sample ID: LCS 580-217005/4
Matrix: Water
Analysis Batch: 217005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.39		mg/L		108	90 - 110
Chloride	50.0	48.7		mg/L		97	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-217005/5
Matrix: Water
Analysis Batch: 217005

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
Fluoride	5.00	5.32		mg/L		106	90 - 110	1	15
Chloride	50.0	48.2		mg/L		96	90 - 110	1	15
Sulfate	50.0	49.5		mg/L		99	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-216315/1-A
Matrix: Water
Analysis Batch: 216356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/03/16 12:00	05/03/16 12:00	1

Lab Sample ID: LCS 580-216315/2-A
Matrix: Water
Analysis Batch: 216356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.97		mg/L		98	90 - 110

Lab Sample ID: MB 580-216663/1-A
Matrix: Water
Analysis Batch: 216777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/06/16 12:00	05/09/16 14:16	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-216663/2-A
Matrix: Water
Analysis Batch: 216777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.97		mg/L		98	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 320-109530/16
Matrix: Water
Analysis Batch: 109530

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			05/06/16 14:20	1

Lab Sample ID: LCS 320-109530/17
Matrix: Water
Analysis Batch: 109530

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	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 580-59160-15 MS
Matrix: Water
Analysis Batch: 109530

Client Sample ID: 0416-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		1.00	0.997		mg/L		99	90 - 110

Lab Sample ID: 580-59160-15 MSD
Matrix: Water
Analysis Batch: 109530

Client Sample ID: 0416-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		1.00	0.988		mg/L		98	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-216209/2
Matrix: Water
Analysis Batch: 216209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	99.4		mg/L		99	85 - 115

Lab Sample ID: LCS 580-216359/2
Matrix: Water
Analysis Batch: 216359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	96.8		mg/L		97	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 580-216437/2
Matrix: Water
Analysis Batch: 216437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	97.0		mg/L		97	85 - 115

Lab Sample ID: 580-59160-12 DU
Matrix: Water
Analysis Batch: 216437

Client Sample ID: 0416-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	580		598		mg/L		3	17
Bicarbonate Alkalinity as CaCO3	580		598		mg/L		3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-216202/1
Matrix: Water
Analysis Batch: 216202

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/02/16 11:11	1

Lab Sample ID: LCS 580-216202/2
Matrix: Water
Analysis Batch: 216202

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	1000	996		mg/L		100	80 - 120

Lab Sample ID: 580-59160-1 DU
Matrix: Water
Analysis Batch: 216202

Client Sample ID: 0416-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	640		657		mg/L		2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-216778/3-A
Matrix: Water
Analysis Batch: 216785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216778

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/09/16 10:45	05/09/16 10:45	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 580-216778/4-A
Matrix: Water
Analysis Batch: 216785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	72.3		mg/L		96	80 - 120

Lab Sample ID: 580-59160-1 MS
Matrix: Water
Analysis Batch: 216785

Client Sample ID: 0416-21
Prep Type: Total/NA
Prep Batch: 216778

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		25.0	28.8		mg/L		115	75 - 125

Lab Sample ID: 580-59160-1 DU
Matrix: Water
Analysis Batch: 216785

Client Sample ID: 0416-21
Prep Type: Total/NA
Prep Batch: 216778

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-216863/3-A
Matrix: Water
Analysis Batch: 216891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216863

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Lab Sample ID: LCS 580-216863/4-A
Matrix: Water
Analysis Batch: 216891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	72.0		mg/L		96	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-216958/1
Matrix: Water
Analysis Batch: 216958

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/10/16 11:56	1

Lab Sample ID: LCS 580-216958/2
Matrix: Water
Analysis Batch: 216958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	11.1		mg/L		111	85 - 115

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-59160-1 MS
Matrix: Water
Analysis Batch: 216958

Client Sample ID: 0416-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.1		10.0	12.6		mg/L		115	85 - 115

Lab Sample ID: 580-59160-1 MSD
Matrix: Water
Analysis Batch: 216958

Client Sample ID: 0416-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.1		10.0	12.6		mg/L		115	85 - 115	0	20

Lab Sample ID: 580-59160-1 DU
Matrix: Water
Analysis Batch: 216958

Client Sample ID: 0416-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.1		1.09		mg/L		2	20

Lab Sample ID: MB 580-216959/1
Matrix: Water
Analysis Batch: 216959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/10/16 19:29	1

Lab Sample ID: LCS 580-216959/2
Matrix: Water
Analysis Batch: 216959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	11.4		mg/L		114	85 - 115

Lab Sample ID: 580-59160-11 MS
Matrix: Water
Analysis Batch: 216959

Client Sample ID: 0416-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	9.2	F1	10.0	20.8	F1	mg/L		116	85 - 115

Lab Sample ID: 580-59160-11 MSD
Matrix: Water
Analysis Batch: 216959

Client Sample ID: 0416-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	9.2	F1	10.0	21.4	F1	mg/L		122	85 - 115	3	20

Lab Sample ID: 580-59160-11 DU
Matrix: Water
Analysis Batch: 216959

Client Sample ID: 0416-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	9.2	F1	9.50		mg/L		3	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-21
Date Collected: 04/25/16 10:37
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216282	05/03/16 20:59	CJ	TAL SEA
Total/NA	Analysis	8260B	RA	1	216372	05/04/16 12:53	TL1	TAL SEA
Dissolved	Prep	3005A			216322	05/03/16 15:05	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216431	05/04/16 14:05	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:58	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 14:15	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		10	109530	05/06/16 14:24	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-32
Date Collected: 04/25/16 11:45
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216282	05/03/16 21:25	CJ	TAL SEA
Dissolved	Prep	3005A			216322	05/03/16 15:05	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216431	05/04/16 14:33	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 19:03	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 14:29	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 14:26	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-15
Date Collected: 04/25/16 12:58
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216282	05/03/16 21:51	CJ	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			216322	05/03/16 15:05	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216431	05/04/16 14:36	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 14:27	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 14:44	RSB	TAL SEA
Total/NA	Analysis	300.0		10	216886	05/10/16 10:41	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 14:28	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216359	05/03/16 20:57	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-20

Date Collected: 04/25/16 11:35
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216282	05/03/16 22:18	CJ	TAL SEA
Dissolved	Prep	3005A			216322	05/03/16 15:05	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216431	05/04/16 14:39	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:07	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 14:58	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 14:30	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216359	05/03/16 20:57	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-16

Date Collected: 04/25/16 13:52
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 15:31	TL1	TAL SEA
Dissolved	Prep	3005A			216322	05/03/16 15:05	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216431	05/04/16 14:43	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:12	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 15:12	RSB	TAL SEA

Client Sample ID: 0416-16

Date Collected: 04/25/16 13:52
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		5	109530	05/06/16 14:32	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216359	05/03/16 20:57	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-14

Date Collected: 04/25/16 14:58
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 15:58	TL1	TAL SEA
Dissolved	Prep	3005A			216322	05/03/16 15:05	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216431	05/04/16 14:46	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:17	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 15:27	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 14:34	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216359	05/03/16 20:57	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-02

Date Collected: 04/25/16 16:04
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 16:24	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:10	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:22	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 15:41	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-02
Date Collected: 04/25/16 16:04
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	109530	05/06/16 14:36	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-13
Date Collected: 04/25/16 17:05
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 16:50	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:38	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:27	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 15:56	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		5	109530	05/06/16 14:38	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-30
Date Collected: 04/25/16 18:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 17:17	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:41	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:32	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 16:39	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 15:40	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA

Client Sample ID: 0416-30

Date Collected: 04/25/16 18:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-19

Date Collected: 04/26/16 09:10
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 17:43	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:44	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:37	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 16:53	RSB	TAL SEA
Total/NA	Analysis	300.0		10	216886	05/10/16 10:56	RSB	TAL SEA
Total/NA	Analysis	350.1		1	216356	05/03/16 12:00	JSM	TAL SEA
Total/NA	Prep	Distill/Ammonia			216315	05/03/16 12:00	JSM	TAL SEA
Total/NA	Analysis	353.2		20	109530	05/06/16 14:48	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216958	05/10/16 11:56	RSB	TAL SEA

Client Sample ID: 0416-31

Date Collected: 04/26/16 09:30
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 18:09	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:42	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 17:08	RSB	TAL SEA
Total/NA	Analysis	300.0		10	216886	05/10/16 11:10	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		10	109530	05/06/16 14:50	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216359	05/03/16 20:57	JSM	TAL SEA

Client Sample ID: 0416-31

Date Collected: 04/26/16 09:30
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-23

Date Collected: 04/26/16 10:27
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 18:35	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:51	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:47	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 17:22	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		10	109530	05/06/16 14:52	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-22

Date Collected: 04/26/16 11:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 19:01	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 17:54	HJM	TAL SEA
Total Recoverable	Prep	3005A			216188	05/02/16 09:52	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 15:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217005	05/11/16 10:33	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		5	109530	05/06/16 14:54	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-22
Date Collected: 04/26/16 11:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-03
Date Collected: 04/26/16 13:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 19:28	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 18:07	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 16:33	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217005	05/11/16 10:48	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 14:56	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-04
Date Collected: 04/26/16 13:55
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 19:54	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 18:10	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 16:37	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217005	05/11/16 11:02	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 14:58	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-01

Date Collected: 04/26/16 15:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216372	05/04/16 20:20	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 18:14	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 16:42	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 17:37	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 15:04	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-24

Date Collected: 04/26/16 16:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216725	05/09/16 13:08	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 18:17	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 16:47	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 17:51	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 15:34	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-10

Date Collected: 04/26/16 17:02
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216725	05/09/16 13:34	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Client Sample ID: 0416-10

Date Collected: 04/26/16 17:02
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	216472	05/04/16 18:20	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 16:53	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 18:06	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 15:36	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-11

Date Collected: 04/26/16 17:48
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216725	05/09/16 14:00	TL1	TAL SEA
Dissolved	Prep	3005A			216383	05/04/16 09:37	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216472	05/04/16 18:23	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 16:58	FCW	TAL SEA
Total/NA	Analysis	300.0		1	216886	05/09/16 18:20	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			216663	05/06/16 12:00	JSM	TAL SEA
Total/NA	Analysis	350.1		1	216777	05/09/16 14:16	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109530	05/06/16 15:38	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216202	05/02/16 11:11	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216785	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216778	05/09/16 10:45	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 04/25/16 00:00
Date Received: 04/27/16 13:00

Lab Sample ID: 580-59160-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216282	05/03/16 15:45	CJ	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Acrylonitrile
8260B		Water	Benzene
8260B		Water	Bromochloromethane
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Ethylbenzene
8260B		Water	m,p-Xylene
8260B		Water	Methyl iodide
8260B		Water	Methylene Chloride
8260B		Water	o-Xylene
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	trans-1,4-Dichloro-2-butene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Vinyl acetate
8260B		Water	Vinyl chloride
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Laboratory: TestAmerica Sacramento

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		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	CA00044	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-17
Oregon	NELAP	10	4040	01-29-17
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	CA00044	02-28-17
Virginia	NELAP	3	460278	03-14-17
Washington	State Program	10	C581	05-05-17
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-L	01-29-17

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59160-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-59160-1	0416-21	Water	04/25/16 10:37	04/27/16 13:00
580-59160-2	0416-32	Water	04/25/16 11:45	04/27/16 13:00
580-59160-3	0416-15	Water	04/25/16 12:58	04/27/16 13:00
580-59160-4	0416-20	Water	04/25/16 11:35	04/27/16 13:00
580-59160-5	0416-16	Water	04/25/16 13:52	04/27/16 13:00
580-59160-6	0416-14	Water	04/25/16 14:58	04/27/16 13:00
580-59160-7	0416-02	Water	04/25/16 16:04	04/27/16 13:00
580-59160-8	0416-13	Water	04/25/16 17:05	04/27/16 13:00
580-59160-9	0416-30	Water	04/25/16 18:00	04/27/16 13:00
580-59160-10	0416-19	Water	04/26/16 09:10	04/27/16 13:00
580-59160-11	0416-31	Water	04/26/16 09:30	04/27/16 13:00
580-59160-12	0416-23	Water	04/26/16 10:27	04/27/16 13:00
580-59160-13	0416-22	Water	04/26/16 11:48	04/27/16 13:00
580-59160-14	0416-03	Water	04/26/16 13:00	04/27/16 13:00
580-59160-15	0416-04	Water	04/26/16 13:55	04/27/16 13:00
580-59160-16	0416-01	Water	04/26/16 15:00	04/27/16 13:00
580-59160-17	0416-24	Water	04/26/16 16:00	04/27/16 13:00
580-59160-18	0416-10	Water	04/26/16 17:02	04/27/16 13:00
580-59160-19	0416-11	Water	04/26/16 17:48	04/27/16 13:00
580-59160-20	Trip Blank	Water	04/25/16 00:00	04/27/16 13:00

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59160

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/11/2016

Client Information	Sampler: Sam Graber	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-19558-6350.1
Client Contact: Joantha Guthrie	Phone: (612) 940-2930	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 4
Company: Island County Public Works				Job #: 042207033.09
Address: 1 NE 6th Street	Due Date Requested: Standard			
City: Coupeville	TAT Requested (days):			
State, Zip: WA, 98239				
Phone: 425-289-5455(Tel)	PO #: Purchase Order Requested			
Email: joanthag@co.island.wa.us	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1 - Ammonia	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	2540C - Total Dissolved Solids	8151A_MS - Standard Reporting List				Total Number of containers	Special Instructions/Note:
				Preservation Code:				S	N	D	D	S	S	A	N	N					
1	0416-21	4/25/16	1037	G	Water	Y	N	X	X	X	X	X	X	X	X					12	
2	0416-32		1145		Water																
3	0416-15		1258		Water																
4	0416-20		1135		Water																
5	0416-16		1352		Water																
6	0416-14		1458		Water																
7	0416-02		1604		Water																
8	0416-13		1705		Water																
9	0416-30		1900		Water																
10	0416-19	4/26/16	910		Water																
11	0416-31		930		Water																

580-59160 Chain of Custody

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		4/27/16 330	SCS		4/27/16 1300	TAS-E
2						
3						

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/11/2016

Client Information	Sampler: Sam Graber	Lab PM: Murphy, Sarah A	Carrier Tracking No(s): X	COC No: 580-19558-6350.2
Client Contact: Joantha Guthrie	Phone: (612) 940-2980	E-Mail: sarah.murphy@testamericainc.com		Page: Page 2 of 4
Company: Island County Public Works				Job #: 042070033.09
Address: 1 NE 6th Street	Due Date Requested: standard			
City: Coupeville	TAT Requested (days):			
State, Zip: WA, 98239				
Phone: 425-289-5455(Tel)	PO #: Purchase Order Requested			
Email: joanthag@co.island.wa.us	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site: I.C. Landfill	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
F - MeOH	R - Na2S2O3
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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1 - Ammonia	SM6310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	2540C - Total Dissolved Solids	8151A_MS - Standard Reporting List				Total Number of containers	Special Instructions/Note:
	Preservation Code:					X	X	S	N	D	D	S	S	A	N	N				X	
12	0416-23	4/26/16	1027	G	Water	Y	N	X	X	X	X	X	X	X	X					12	
13	0416-22	"	1148	"	Water	"	"	"	"	"	"	"	"	"	"					"	
14	0416-03	"	1300	"	Water	"	"	"	"	"	"	"	"	"	"					"	
15	0416-04	"	1355	"	Water	"	"	"	"	"	"	"	"	"	"					"	
16	0416-01	"	1500	"	Water	"	"	"	"	"	"	"	"	"	"					"	
17	0416-24	"	1600	"	Water	"	"	"	"	"	"	"	"	"	"					"	
18	0416-10	"	1702	"	Water	"	"	"	"	"	"	"	"	"	"					"	
19	0416-11	"	1748	"	Water	"	"	"	"	"	"	"	"	"	"					"	
20	Trip blank	—	—	—	Water		"							"						3	
					Water																
					Water																

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	[signature]	4/27/16 830	SCS	[signature]	4/27/16 1300	TASEA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

TB____Cooler IR2 Cor 4.8 Unc 4.4
Cooler Dsc Lg Redish @Lab 1700
Wet/Packs Packing Other
w/o

TB____Cooler IR2 Cor 3.3 Unc 3.4
Cooler Dsc ~~Lg Red/Wht~~ @Lab 1700
Wet/Packs Packing other
w/o Blue/white Lg

TB____Cooler IR2 Cor 2.5 Unc 2.6
Cooler Dsc Lg Blu/wht @Lab 1700
Wet/Packs Packing Other
w/o

TB____Cooler IR2 Cor 6.3 Unc 6.4
Cooler Dsc Lg Green/Blue @Lab 1700
Wet/Packs Packing other
w/o

TB____Cooler IR2 Cor 5.6 Unc 5.7
Cooler Dsc Lg Blue/wht @Lab 1700
Wet/Packs Packing Other
w/o

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-38084 1
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 580-59160-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 5/9/2016			Preservation Codes:
City: West Sacramento	TAT Requested (days):			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 - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			Other:
Email	WO #			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site	SSOW#			

Sample Identification - Client ID (Lab ID)	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 Only	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
0416-21 (580-59160-1)	4/25/16	10:37 Pacific		Water			X	1	
0416-32 (580-59160-2)	4/25/16	11:45 Pacific		Water			X	1	
0416-15 (580-59160-3)	4/25/16	12.58 Pacific		Water			X	1	
0416-20 (580-59160-4)	4/25/16	11:35 Pacific		Water			X	1	
0416-16 (580-59160-5)	4/25/16	13:52 Pacific		Water			X	1	
0416-14 (580-59160-6)	4/25/16	14:58 Pacific		Water			X	1	
0416-02 (580-59160-7)	4/25/16	16.04 Pacific		Water			X	1	
0416-13 (580-59160-8)	4/25/16	17 05 Pacific		Water			X	1	
0416-30 (580-59160-9)	4/25/16	18:00 Pacific		Water			X	1	
0416-19 (580-59160-10)	4/26/16	09:10 Pacific		Water			X	1	
0416-31 (580-59160-11)	4/26/16	09.30 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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
	B. Heck	4-29-16 1552	SEATA		4/30/16 0915	TAS
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

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5/11/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No: 580-38084 2
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah.murphy@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc				Job #: 580-59160-1
Address: 880 Riverside Parkway,	Due Date Requested: 5/9/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site	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
F - MeOH	R - Na2S2O3
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 - Client ID (Lab ID)	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)	353.2/ Nitrate Nitrite Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
0416-23 (580-59160-12)	4/26/16	10 27 Pacific		Water		X	1	
0416-22 (580-59160-13)	4/26/16	11 48 Pacific		Water		X	1	
0416-03 (580-59160-14)	4/26/16	13 00 Pacific		Water		X	1	
0416-04 (580-59160-15)	4/26/16	13 55 Pacific		Water		X	1	
0416-01 (580-59160-16)	4/26/16	15 00 Pacific		Water		X	1	
0416-24 (580-59160-17)	4/26/16	16 00 Pacific		Water		X	1	
0416-10 (580-59160-18)	4/26/16	17 02 Pacific		Water		X	1	
0416-11 (580-59160-19)	4/26/16	17 48 Pacific		Water		X	1	

Possible Hazard Identification
Unconfirmed

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	Received by	Date/Time	Company
Relinquished by: B. Hall	4-29-16 1552	SEATA		4/30/16 0915	TAKS
Relinquished by			Received by		
Relinquished by			Received by		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.0

5/11/2016

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-59160-1

Login Number: 59160
List Number: 1
Creator: Gamble, Cathy L

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-59160-1

Login Number: 59160
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 04/30/16 11:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-59194-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
5/17/2016 10:21:27 AM

Sarah Murphy, Project Manager I
(253)922-2310
sarah.murphy@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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Job ID: 580-59194-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 4/29/2016 1:08 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.7º C, 5.0º C, 5.6º C and 5.6º C.

Receipt Exceptions
There was no Sample ID written on the 0416-25 Sample containers. Identified sample by comparing the time written on the sample container time written on COC.
0416-25 (580-59194-17)

GC/MS VOA
Method(s) 8260B: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 580-216919: 1,1,2,2-Tetrachloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260B: Surrogate recovery for the following samples was outside the upper control limit: 0416-06 (580-59194-1), 0416-28 (580-59194-3) and 0416-29 (580-59194-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8151A: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for preparation batch 580-216193 and 580-216193 and analytical batch 580-216520 recovered outside control limits for the following analytes: MCPA (LCSD only), Pentachlorophenol (LCSD only) and Dinoseb (both). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8151A: The laboratory control sample (LCS) for preparation batch 580-216193 and 580-216193 and analytical batch 580-216520 recovered outside acceptance limits for Dalapon. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 353.2: The following samples were diluted to bring the concentration of target analytes within the calibration range: 0416-06 (580-59194-1), 0416-26 (580-59194-7), 0416-18 (580-59194-9), 0416-17 (580-59194-10) and 0416-12 (580-59194-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-06
Date Collected: 04/27/16 09:45
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 01:04	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 01:04	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 01:04	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 01:04	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 01:04	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 01:04	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 01:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 01:04	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 01:04	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 01:04	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 01:04	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 01:04	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 01:04	1
2-Butanone	ND		15		ug/L			05/11/16 01:04	1
2-Hexanone	ND		2.0		ug/L			05/11/16 01:04	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 01:04	1
Acetone	ND		2.0		ug/L			05/11/16 01:04	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 01:04	1
Benzene	ND		0.20		ug/L			05/11/16 01:04	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 01:04	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 01:04	1
Bromoform	ND		0.50		ug/L			05/11/16 01:04	1
Bromomethane	ND		1.0		ug/L			05/11/16 01:04	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 01:04	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 01:04	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 01:04	1
Chloroethane	ND		0.50		ug/L			05/11/16 01:04	1
Chloroform	ND		0.20		ug/L			05/11/16 01:04	1
Chloromethane	ND		0.30		ug/L			05/11/16 01:04	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 01:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 01:04	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 01:04	1
Dibromomethane	ND		0.20		ug/L			05/11/16 01:04	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 01:04	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 01:04	1
Methyl iodide	ND		0.50		ug/L			05/11/16 01:04	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 01:04	1
o-Xylene	ND		0.50		ug/L			05/11/16 01:04	1
Styrene	ND		0.50		ug/L			05/11/16 01:04	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 01:04	1
Toluene	ND		0.20		ug/L			05/11/16 01:04	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 01:04	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 01:04	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 01:04	1
Trichloroethene	ND		0.20		ug/L			05/11/16 01:04	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 01:04	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 01:04	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 01:04	1

Client Sample ID: 0416-06
Date Collected: 04/27/16 09:45
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132	X	70 - 128		05/11/16 01:04	1
4-Bromofluorobenzene (Surr)	109		75 - 120		05/11/16 01:04	1
Dibromofluoromethane (Surr)	112		85 - 115		05/11/16 01:04	1
Toluene-d8 (Surr)	99		75 - 125		05/11/16 01:04	1
Trifluorotoluene (Surr)	91		80 - 127		05/11/16 01:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		1.1		mg/L		05/09/16 16:15	05/10/16 09:10	1
Iron	ND		0.30		mg/L		05/09/16 16:15	05/10/16 09:10	1
Magnesium	**34**		1.1		mg/L		05/09/16 16:15	05/10/16 09:10	1
Manganese	ND		0.020		mg/L		05/09/16 16:15	05/10/16 09:10	1
Potassium	**5.5**		3.3		mg/L		05/09/16 16:15	05/10/16 09:10	1
Sodium	**17**		2.0		mg/L		05/09/16 16:15	05/10/16 09:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Arsenic	**0.0029**		0.0010		mg/L		05/02/16 10:47	05/03/16 17:38	1
Barium	**0.032**		0.0012		mg/L		05/02/16 10:47	05/03/16 17:38	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Chromium	**0.0042**		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Copper	**0.0033**		0.0020		mg/L		05/02/16 10:47	05/03/16 17:38	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Nickel	**0.0053**		0.0030		mg/L		05/02/16 10:47	05/03/16 17:38	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:38	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:38	1
Vanadium	**0.0055**		0.0040		mg/L		05/02/16 10:47	05/03/16 17:38	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.20		mg/L			05/12/16 10:34	1
Chloride	**20**	**F1**	0.90		mg/L			05/12/16 10:34	1
Sulfate	**64**	**F1**	1.2		mg/L			05/12/16 10:34	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**5.0**		0.50		mg/L			05/12/16 12:20	10
Total Organic Carbon	**1.1**		1.0		mg/L			05/10/16 19:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**290**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**470**		10		mg/L			05/03/16 21:10	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client Sample ID: 0416-07
Date Collected: 04/27/16 11:16
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 01:30	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 01:30	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 01:30	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 01:30	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 01:30	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 01:30	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 01:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 01:30	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 01:30	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 01:30	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 01:30	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 01:30	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 01:30	1
2-Butanone	ND		15		ug/L			05/11/16 01:30	1
2-Hexanone	ND		2.0		ug/L			05/11/16 01:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 01:30	1
Acetone	ND		2.0		ug/L			05/11/16 01:30	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 01:30	1
Benzene	ND		0.20		ug/L			05/11/16 01:30	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 01:30	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 01:30	1
Bromoform	ND		0.50		ug/L			05/11/16 01:30	1
Bromomethane	ND		1.0		ug/L			05/11/16 01:30	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 01:30	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 01:30	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 01:30	1
Chloroethane	ND		0.50		ug/L			05/11/16 01:30	1
Chloroform	ND		0.20		ug/L			05/11/16 01:30	1
Chloromethane	ND		0.30		ug/L			05/11/16 01:30	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 01:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 01:30	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 01:30	1
Dibromomethane	ND		0.20		ug/L			05/11/16 01:30	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 01:30	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 01:30	1
Methyl iodide	ND		0.50		ug/L			05/11/16 01:30	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 01:30	1
o-Xylene	ND		0.50		ug/L			05/11/16 01:30	1
Styrene	ND		0.50		ug/L			05/11/16 01:30	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 01:30	1
Toluene	ND		0.20		ug/L			05/11/16 01:30	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 01:30	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 01:30	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 01:30	1
Trichloroethene	ND		0.20		ug/L			05/11/16 01:30	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 01:30	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 01:30	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 01:30	1

Client Sample ID: 0416-07
Date Collected: 04/27/16 11:16
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 128*		*05/11/16 01:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/11/16 01:30*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*05/11/16 01:30*	*1*
Toluene-d8 (Surr)	*76*		*75 - 125*		*05/11/16 01:30*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 127*		*05/11/16 01:30*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64**		1.1		mg/L		05/09/16 16:15	05/10/16 09:38	1
Iron	ND		0.30		mg/L		05/09/16 16:15	05/10/16 09:38	1
Magnesium	**38**		1.1		mg/L		05/09/16 16:15	05/10/16 09:38	1
Manganese	ND		0.020		mg/L		05/09/16 16:15	05/10/16 09:38	1
Potassium	**6.5**		3.3		mg/L		05/09/16 16:15	05/10/16 09:38	1
Sodium	**26**		2.0		mg/L		05/09/16 16:15	05/10/16 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Arsenic	**0.0073**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:18	1
Barium	**0.023**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:18	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:18	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 18:18	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:18	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:18	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 18:18	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 11:18	1
Chloride	**41**		0.90		mg/L			05/12/16 11:18	1
Sulfate	**36**		1.2		mg/L			05/12/16 11:18	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**0.082**		0.050		mg/L			05/12/16 12:22	1
Total Organic Carbon	**1.0**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**390**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client Sample ID: 0416-28
Date Collected: 04/27/16 13:00
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 01:56	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 01:56	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 01:56	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 01:56	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 01:56	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 01:56	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 01:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 01:56	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 01:56	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 01:56	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 01:56	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 01:56	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 01:56	1
2-Butanone	ND		15		ug/L			05/11/16 01:56	1
2-Hexanone	ND		2.0		ug/L			05/11/16 01:56	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 01:56	1
Acetone	ND		2.0		ug/L			05/11/16 01:56	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 01:56	1
Benzene	ND		0.20		ug/L			05/11/16 01:56	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 01:56	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 01:56	1
Bromoform	ND		0.50		ug/L			05/11/16 01:56	1
Bromomethane	ND		1.0		ug/L			05/11/16 01:56	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 01:56	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 01:56	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 01:56	1
Chloroethane	ND		0.50		ug/L			05/11/16 01:56	1
Chloroform	ND		0.20		ug/L			05/11/16 01:56	1
Chloromethane	ND		0.30		ug/L			05/11/16 01:56	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 01:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 01:56	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 01:56	1
Dibromomethane	ND		0.20		ug/L			05/11/16 01:56	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 01:56	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 01:56	1
Methyl iodide	ND		0.50		ug/L			05/11/16 01:56	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 01:56	1
o-Xylene	ND		0.50		ug/L			05/11/16 01:56	1
Styrene	ND		0.50		ug/L			05/11/16 01:56	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 01:56	1
Toluene	ND		0.20		ug/L			05/11/16 01:56	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 01:56	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 01:56	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 01:56	1
Trichloroethene	ND		0.20		ug/L			05/11/16 01:56	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 01:56	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 01:56	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 01:56	1

Client Sample ID: 0416-28
Date Collected: 04/27/16 13:00
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 128*		*05/11/16 01:56*	*1*
4-Bromofluorobenzene (Surr)	*136*	*X*	*75 - 120*		*05/11/16 01:56*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/11/16 01:56*	*1*
Toluene-d8 (Surr)	*93*		*75 - 125*		*05/11/16 01:56*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 127*		*05/11/16 01:56*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**77**		1.1		mg/L		05/09/16 16:15	05/10/16 09:41	1
Iron	ND		0.30		mg/L		05/09/16 16:15	05/10/16 09:41	1
Magnesium	**50**		1.1		mg/L		05/09/16 16:15	05/10/16 09:41	1
Manganese	ND		0.020		mg/L		05/09/16 16:15	05/10/16 09:41	1
Potassium	**6.3**		3.3		mg/L		05/09/16 16:15	05/10/16 09:41	1
Sodium	**31**		2.0		mg/L		05/09/16 16:15	05/10/16 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Arsenic	**0.0052**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:23	1
Barium	**0.024**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:23	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Chromium	**0.0091**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:23	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 18:23	1
Selenium	**0.0016**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:23	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:23	1
Vanadium	**0.0046**		0.0040		mg/L		05/02/16 10:47	05/03/16 18:23	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 11:32	1
Chloride	**68**		0.90		mg/L			05/12/16 11:32	1
Sulfate	**39**		1.2		mg/L			05/12/16 11:32	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**1.2**		0.050		mg/L			05/12/16 13:11	1
Total Organic Carbon	**1.8**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**290**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**480**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client Sample ID: 0416-27
Date Collected: 04/27/16 13:50
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 02:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 02:22	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 02:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 02:22	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 02:22	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 02:22	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 02:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 02:22	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 02:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 02:22	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 02:22	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 02:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 02:22	1
2-Butanone	ND		15		ug/L			05/11/16 02:22	1
2-Hexanone	ND		2.0		ug/L			05/11/16 02:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 02:22	1
Acetone	ND		2.0		ug/L			05/11/16 02:22	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 02:22	1
Benzene	ND		0.20		ug/L			05/11/16 02:22	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 02:22	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 02:22	1
Bromoform	ND		0.50		ug/L			05/11/16 02:22	1
Bromomethane	ND		1.0		ug/L			05/11/16 02:22	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 02:22	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 02:22	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 02:22	1
Chloroethane	ND		0.50		ug/L			05/11/16 02:22	1
Chloroform	ND		0.20		ug/L			05/11/16 02:22	1
Chloromethane	ND		0.30		ug/L			05/11/16 02:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 02:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 02:22	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 02:22	1
Dibromomethane	ND		0.20		ug/L			05/11/16 02:22	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 02:22	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 02:22	1
Methyl iodide	ND		0.50		ug/L			05/11/16 02:22	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 02:22	1
o-Xylene	ND		0.50		ug/L			05/11/16 02:22	1
Styrene	ND		0.50		ug/L			05/11/16 02:22	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 02:22	1
Toluene	ND		0.20		ug/L			05/11/16 02:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 02:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 02:22	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 02:22	1
Trichloroethene	ND		0.20		ug/L			05/11/16 02:22	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 02:22	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 02:22	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 02:22	1

Client Sample ID: 0416-27
Date Collected: 04/27/16 13:50
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*05/11/16 02:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*05/11/16 02:22*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/11/16 02:22*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/11/16 02:22*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*05/11/16 02:22*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**72**		1.1		mg/L		05/09/16 16:15	05/10/16 09:44	1
Iron	ND		0.30		mg/L		05/09/16 16:15	05/10/16 09:44	1
Magnesium	**63**		1.1		mg/L		05/09/16 16:15	05/10/16 09:44	1
Manganese	**0.20**		0.020		mg/L		05/09/16 16:15	05/10/16 09:44	1
Potassium	**8.5**		3.3		mg/L		05/09/16 16:15	05/10/16 09:44	1
Sodium	**34**		2.0		mg/L		05/09/16 16:15	05/10/16 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Arsenic	**0.011**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:28	1
Barium	**0.049**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:28	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Chromium	**0.0015**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:28	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 18:28	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:28	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:28	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 18:28	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 11:47	1
Chloride	**73**		0.90		mg/L			05/12/16 11:47	1
Sulfate	**28**		1.2		mg/L			05/12/16 11:47	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:30	1
Total Organic Carbon	**2.0**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**520**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client Sample ID: 0416-05
Date Collected: 04/27/16 15:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 02:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 02:48	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 02:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 02:48	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 02:48	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 02:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 02:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 02:48	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 02:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 02:48	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 02:48	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 02:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 02:48	1
2-Butanone	ND		15		ug/L			05/11/16 02:48	1
2-Hexanone	ND		2.0		ug/L			05/11/16 02:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 02:48	1
Acetone	ND		2.0		ug/L			05/11/16 02:48	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 02:48	1
Benzene	ND		0.20		ug/L			05/11/16 02:48	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 02:48	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 02:48	1
Bromoform	ND		0.50		ug/L			05/11/16 02:48	1
Bromomethane	ND		1.0		ug/L			05/11/16 02:48	1
Carbon disulfide	**0.23**		0.20		ug/L			05/11/16 02:48	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 02:48	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 02:48	1
Chloroethane	ND		0.50		ug/L			05/11/16 02:48	1
Chloroform	ND		0.20		ug/L			05/11/16 02:48	1
Chloromethane	ND		0.30		ug/L			05/11/16 02:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 02:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 02:48	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 02:48	1
Dibromomethane	ND		0.20		ug/L			05/11/16 02:48	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 02:48	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 02:48	1
Methyl iodide	ND		0.50		ug/L			05/11/16 02:48	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 02:48	1
o-Xylene	ND		0.50		ug/L			05/11/16 02:48	1
Styrene	ND		0.50		ug/L			05/11/16 02:48	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 02:48	1
Toluene	ND		0.20		ug/L			05/11/16 02:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 02:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 02:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 02:48	1
Trichloroethene	ND		0.20		ug/L			05/11/16 02:48	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 02:48	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 02:48	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 02:48	1

Client Sample ID: 0416-05
Date Collected: 04/27/16 15:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 128*		*05/11/16 02:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*05/11/16 02:48*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 115*		*05/11/16 02:48*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/11/16 02:48*	*1*
Trifluorotoluene (Surr)	*122*		*80 - 127*		*05/11/16 02:48*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**42**		1.1		mg/L		05/05/16 09:03	05/06/16 10:55	1
Iron	**0.32**		0.30		mg/L		05/05/16 09:03	05/06/16 10:55	1
Magnesium	**30**		1.1		mg/L		05/05/16 09:03	05/06/16 10:55	1
Manganese	**0.093**		0.020		mg/L		05/05/16 09:03	05/06/16 10:55	1
Potassium	**11**		3.3		mg/L		05/05/16 09:03	05/06/16 10:55	1
Sodium	**19**		2.0		mg/L		05/05/16 09:03	05/06/16 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00060**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Arsenic	**0.023**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:33	1
Barium	**0.062**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:33	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Chromium	**0.0041**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Copper	**0.026**		0.0020		mg/L		05/02/16 10:47	05/03/16 18:33	1
Lead	**0.0059**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 18:33	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:33	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:33	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 18:33	1
Zinc	**1.1**		0.0070		mg/L		05/02/16 10:47	05/03/16 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 12:01	1
Chloride	**41**		0.90		mg/L			05/12/16 12:01	1
Sulfate	**11**		1.2		mg/L			05/12/16 12:01	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:32	1
Total Organic Carbon	**1.1**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**310**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-97
Date Collected: 04/27/16 16:10
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 03:15	1
1,1,1-Trichloroethane	**0.75**		0.20		ug/L			05/11/16 03:15	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 03:15	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 03:15	1
1,1-Dichloroethane	**2.1**		0.20		ug/L			05/11/16 03:15	1
1,1-Dichloroethene	**0.54**		0.10		ug/L			05/11/16 03:15	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 03:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 03:15	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 03:15	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 03:15	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 03:15	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 03:15	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 03:15	1
2-Butanone	ND		15		ug/L			05/11/16 03:15	1
2-Hexanone	ND		2.0		ug/L			05/11/16 03:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 03:15	1
Acetone	ND		2.0		ug/L			05/11/16 03:15	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 03:15	1
Benzene	ND		0.20		ug/L			05/11/16 03:15	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 03:15	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 03:15	1
Bromoform	ND		0.50		ug/L			05/11/16 03:15	1
Bromomethane	ND		1.0		ug/L			05/11/16 03:15	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 03:15	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 03:15	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 03:15	1
Chloroethane	ND		0.50		ug/L			05/11/16 03:15	1
Chloroform	ND		0.20		ug/L			05/11/16 03:15	1
Chloromethane	ND		0.30		ug/L			05/11/16 03:15	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 03:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 03:15	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 03:15	1
Dibromomethane	ND		0.20		ug/L			05/11/16 03:15	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 03:15	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 03:15	1
Methyl iodide	ND		0.50		ug/L			05/11/16 03:15	1
Methylene Chloride	**0.67**		0.50		ug/L			05/11/16 03:15	1
o-Xylene	ND		0.50		ug/L			05/11/16 03:15	1
Styrene	ND		0.50		ug/L			05/11/16 03:15	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 03:15	1
Toluene	ND		0.20		ug/L			05/11/16 03:15	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 03:15	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 03:15	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 03:15	1
Trichloroethene	ND		0.20		ug/L			05/11/16 03:15	1
Trichlorofluoromethane	**62**		0.50		ug/L			05/11/16 03:15	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 03:15	1
Vinyl chloride	**5.4**		0.020		ug/L			05/11/16 03:15	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-97
Date Collected: 04/27/16 16:10
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128		05/11/16 03:15	1
4-Bromofluorobenzene (Surr)	98		75 - 120		05/11/16 03:15	1
Dibromofluoromethane (Surr)	97		85 - 115		05/11/16 03:15	1
Toluene-d8 (Surr)	101		75 - 125		05/11/16 03:15	1
Trifluorotoluene (Surr)	93		80 - 127		05/11/16 03:15	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-26
Date Collected: 04/27/16 17:08
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 20:24	1
1,1,1-Trichloroethane	**0.23**		0.20		ug/L			05/11/16 20:24	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 20:24	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 20:24	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 20:24	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 20:24	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 20:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 20:24	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 20:24	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 20:24	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 20:24	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 20:24	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 20:24	1
2-Butanone	ND		15		ug/L			05/11/16 20:24	1
2-Hexanone	ND		2.0		ug/L			05/11/16 20:24	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 20:24	1
Acetone	ND		2.0		ug/L			05/11/16 20:24	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 20:24	1
Benzene	ND		0.20		ug/L			05/11/16 20:24	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 20:24	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 20:24	1
Bromoform	ND		0.50		ug/L			05/11/16 20:24	1
Bromomethane	ND		1.0		ug/L			05/11/16 20:24	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 20:24	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 20:24	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 20:24	1
Chloroethane	ND		0.50		ug/L			05/11/16 20:24	1
Chloroform	ND		0.20		ug/L			05/11/16 20:24	1
Chloromethane	ND		0.30		ug/L			05/11/16 20:24	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 20:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 20:24	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 20:24	1
Dibromomethane	ND		0.20		ug/L			05/11/16 20:24	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 20:24	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 20:24	1
Methyl iodide	ND		0.50		ug/L			05/11/16 20:24	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 20:24	1
o-Xylene	ND		0.50		ug/L			05/11/16 20:24	1
Styrene	ND		0.50		ug/L			05/11/16 20:24	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 20:24	1
Toluene	ND		0.20		ug/L			05/11/16 20:24	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 20:24	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 20:24	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 20:24	1
Trichloroethene	ND		0.20		ug/L			05/11/16 20:24	1
Trichlorofluoromethane	**1.7**		0.50		ug/L			05/11/16 20:24	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 20:24	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 20:24	1

Client Sample ID: 0416-26
Date Collected: 04/27/16 17:08
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 128*		*05/11/16 20:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*05/11/16 20:24*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*05/11/16 20:24*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/11/16 20:24*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*05/11/16 20:24*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	**0.48**		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
2,4-D	**0.36**		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
2,4-DB	ND		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
4-Nitrophenol	ND		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
Dalapon	ND	*	0.39		ug/L		05/02/16 10:29	05/06/16 00:19	1
Dicamba	**2.7**		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
Dichlorprop	ND		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
Dinoseb	ND	*	0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
MCPA	ND	*	0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
Mecoprop	ND		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
Pentachlorophenol	ND	*	0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1
Silvex (2,4,5-TP)	ND		0.24		ug/L		05/02/16 10:29	05/06/16 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*95*		*44 - 150*	*05/02/16 10:29*	*05/06/16 00:19*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		05/05/16 09:03	05/06/16 10:58	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 10:58	1
Magnesium	**48**		1.1		mg/L		05/05/16 09:03	05/06/16 10:58	1
Manganese	ND		0.020		mg/L		05/05/16 09:03	05/06/16 10:58	1
Potassium	**6.0**		3.3		mg/L		05/05/16 09:03	05/06/16 10:58	1
Sodium	**26**		2.0		mg/L		05/05/16 09:03	05/06/16 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Arsenic	**0.0017**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:38	1
Barium	**0.038**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:38	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Chromium	**0.014**		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:38	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Nickel	**0.0032**		0.0030		mg/L		05/02/16 10:47	05/03/16 18:38	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:38	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:38	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 18:38	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-26
Date Collected: 04/27/16 17:08
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 12:15	1
Chloride	**100**		0.90		mg/L			05/12/16 12:15	1
Sulfate	**42**		1.2		mg/L			05/12/16 12:15	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**12**		1.0		mg/L			05/12/16 12:34	20
Total Organic Carbon	**1.3**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**660**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client Sample ID: 0416-29
Date Collected: 04/27/16 18:10
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 04:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 04:07	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			05/11/16 04:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 04:07	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 04:07	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 04:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 04:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 04:07	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 04:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 04:07	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 04:07	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 04:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 04:07	1
2-Butanone	ND		15		ug/L			05/11/16 04:07	1
2-Hexanone	ND		2.0		ug/L			05/11/16 04:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 04:07	1
Acetone	ND		2.0		ug/L			05/11/16 04:07	1
Acrylonitrile	ND		5.0		ug/L			05/11/16 04:07	1
Benzene	ND		0.20		ug/L			05/11/16 04:07	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 04:07	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 04:07	1
Bromoform	ND		0.50		ug/L			05/11/16 04:07	1
Bromomethane	ND		1.0		ug/L			05/11/16 04:07	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 04:07	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 04:07	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 04:07	1
Chloroethane	ND		0.50		ug/L			05/11/16 04:07	1
Chloroform	ND		0.20		ug/L			05/11/16 04:07	1
Chloromethane	ND		0.30		ug/L			05/11/16 04:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 04:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 04:07	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 04:07	1
Dibromomethane	ND		0.20		ug/L			05/11/16 04:07	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 04:07	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 04:07	1
Methyl iodide	ND		0.50		ug/L			05/11/16 04:07	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 04:07	1
o-Xylene	ND		0.50		ug/L			05/11/16 04:07	1
Styrene	ND		0.50		ug/L			05/11/16 04:07	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 04:07	1
Toluene	ND		0.20		ug/L			05/11/16 04:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 04:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 04:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 04:07	1
Trichloroethene	ND		0.20		ug/L			05/11/16 04:07	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 04:07	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 04:07	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 04:07	1

Client Sample ID: 0416-29
Date Collected: 04/27/16 18:10
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 128*		*05/11/16 04:07*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 120*		*05/11/16 04:07*	*1*
Dibromofluoromethane (Surr)	*91*		*85 - 115*		*05/11/16 04:07*	*1*
Toluene-d8 (Surr)	*126*	*X*	*75 - 125*		*05/11/16 04:07*	*1*
Trifluorotoluene (Surr)	*110*		*80 - 127*		*05/11/16 04:07*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		05/05/16 09:03	05/06/16 11:01	1
Iron	**0.30**		0.30		mg/L		05/05/16 09:03	05/06/16 11:01	1
Magnesium	**47**		1.1		mg/L		05/05/16 09:03	05/06/16 11:01	1
Manganese	**0.11**		0.020		mg/L		05/05/16 09:03	05/06/16 11:01	1
Potassium	**5.9**		3.3		mg/L		05/05/16 09:03	05/06/16 11:01	1
Sodium	**30**		2.0		mg/L		05/05/16 09:03	05/06/16 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Arsenic	**0.0045**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:43	1
Barium	**0.032**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:43	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:43	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 18:43	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:43	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:43	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 18:43	1
Zinc	**0.14**		0.0070		mg/L		05/02/16 10:47	05/03/16 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 12:30	1
Chloride	**62**		0.90		mg/L			05/12/16 12:30	1
Sulfate	**43**		1.2		mg/L			05/12/16 12:30	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:42	1
Total Organic Carbon	**1.8**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**490**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-18
Date Collected: 04/28/16 09:06
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 03:23	1
1,1,1-Trichloroethane	**0.54**		0.20		ug/L			05/12/16 03:23	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 03:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 03:23	1
1,1-Dichloroethane	**0.59**		0.20		ug/L			05/12/16 03:23	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 03:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 03:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 03:23	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 03:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 03:23	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 03:23	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 03:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 03:23	1
2-Butanone	ND		15		ug/L			05/12/16 03:23	1
2-Hexanone	ND		2.0		ug/L			05/12/16 03:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 03:23	1
Acetone	ND		2.0		ug/L			05/12/16 03:23	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 03:23	1
Benzene	ND		0.20		ug/L			05/12/16 03:23	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 03:23	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 03:23	1
Bromoform	ND		0.50		ug/L			05/12/16 03:23	1
Bromomethane	ND		1.0		ug/L			05/12/16 03:23	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 03:23	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 03:23	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 03:23	1
Chloroethane	ND		0.50		ug/L			05/12/16 03:23	1
Chloroform	ND		0.20		ug/L			05/12/16 03:23	1
Chloromethane	ND		0.30		ug/L			05/12/16 03:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 03:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 03:23	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 03:23	1
Dibromomethane	ND		0.20		ug/L			05/12/16 03:23	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 03:23	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 03:23	1
Methyl iodide	ND		0.50		ug/L			05/12/16 03:23	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 03:23	1
o-Xylene	ND		0.50		ug/L			05/12/16 03:23	1
Styrene	ND		0.50		ug/L			05/12/16 03:23	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 03:23	1
Toluene	ND		0.20		ug/L			05/12/16 03:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 03:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 03:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 03:23	1
Trichloroethene	ND		0.20		ug/L			05/12/16 03:23	1
Trichlorofluoromethane	**1.9**		0.50		ug/L			05/12/16 03:23	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 03:23	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 03:23	1

Client Sample ID: 0416-18
Date Collected: 04/28/16 09:06
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 128*		*05/12/16 03:23*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*05/12/16 03:23*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/12/16 03:23*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/12/16 03:23*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 127*		*05/12/16 03:23*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		05/05/16 09:03	05/06/16 11:05	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 11:05	1
Magnesium	**97**		1.1		mg/L		05/05/16 09:03	05/06/16 11:05	1
Manganese	ND		0.020		mg/L		05/05/16 09:03	05/06/16 11:05	1
Potassium	**9.4**		3.3		mg/L		05/05/16 09:03	05/06/16 11:05	1
Sodium	**32**		2.0		mg/L		05/05/16 09:03	05/06/16 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Arsenic	**0.0015**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:48	1
Barium	**0.057**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:48	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:48	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Nickel	**0.0049**		0.0030		mg/L		05/02/16 10:47	05/03/16 18:48	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:48	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:48	1
Vanadium	**0.0044**		0.0040		mg/L		05/02/16 10:47	05/03/16 18:48	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 11:56	1
Chloride	**37**		0.90		mg/L			05/13/16 11:56	1
Sulfate	**110**		12		mg/L			05/16/16 11:11	10
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**5.5**		0.50		mg/L			05/12/16 12:44	10
Total Organic Carbon	**1.8**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**720**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**720**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**970**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-17
Date Collected: 04/28/16 10:40
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 03:50	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 03:50	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 03:50	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 03:50	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 03:50	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 03:50	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 03:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 03:50	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 03:50	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 03:50	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 03:50	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 03:50	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 03:50	1
2-Butanone	ND		15		ug/L			05/12/16 03:50	1
2-Hexanone	ND		2.0		ug/L			05/12/16 03:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 03:50	1
Acetone	ND		2.0		ug/L			05/12/16 03:50	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 03:50	1
Benzene	ND		0.20		ug/L			05/12/16 03:50	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 03:50	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 03:50	1
Bromoform	ND		0.50		ug/L			05/12/16 03:50	1
Bromomethane	ND		1.0		ug/L			05/12/16 03:50	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 03:50	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 03:50	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 03:50	1
Chloroethane	ND		0.50		ug/L			05/12/16 03:50	1
Chloroform	ND		0.20		ug/L			05/12/16 03:50	1
Chloromethane	ND		0.30		ug/L			05/12/16 03:50	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 03:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 03:50	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 03:50	1
Dibromomethane	ND		0.20		ug/L			05/12/16 03:50	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 03:50	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 03:50	1
Methyl iodide	ND		0.50		ug/L			05/12/16 03:50	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 03:50	1
o-Xylene	ND		0.50		ug/L			05/12/16 03:50	1
Styrene	ND		0.50		ug/L			05/12/16 03:50	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 03:50	1
Toluene	ND		0.20		ug/L			05/12/16 03:50	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 03:50	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 03:50	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 03:50	1
Trichloroethene	ND		0.20		ug/L			05/12/16 03:50	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 03:50	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 03:50	1
Vinyl chloride	**0.038**		0.020		ug/L			05/12/16 03:50	1

Client Sample ID: 0416-17
Date Collected: 04/28/16 10:40
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 128*		*05/12/16 03:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/12/16 03:50*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/12/16 03:50*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/12/16 03:50*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*05/12/16 03:50*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		05/05/16 09:03	05/06/16 11:08	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 11:08	1
Magnesium	**73**		1.1		mg/L		05/05/16 09:03	05/06/16 11:08	1
Manganese	ND		0.020		mg/L		05/05/16 09:03	05/06/16 11:08	1
Potassium	**8.1**		3.3		mg/L		05/05/16 09:03	05/06/16 11:08	1
Sodium	**40**		2.0		mg/L		05/05/16 09:03	05/06/16 11:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Arsenic	**0.0033**		0.0010		mg/L		05/02/16 10:47	05/03/16 18:53	1
Barium	**0.030**		0.0012		mg/L		05/02/16 10:47	05/03/16 18:53	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 18:53	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Nickel	**0.0043**		0.0030		mg/L		05/02/16 10:47	05/03/16 18:53	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:53	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 18:53	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 18:53	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 12:10	1
Chloride	**75**		0.90		mg/L			05/13/16 12:10	1
Sulfate	**65**		1.2		mg/L			05/13/16 12:10	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**2.7**		0.10		mg/L			05/12/16 12:46	2
Total Organic Carbon	**1.9**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**460**		5.0		mg/L			05/02/16 12:45	1
Bicarbonate Alkalinity as CaCO3	**460**		5.0		mg/L			05/02/16 12:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/02/16 12:45	1
Total Dissolved Solids	**690**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-12
Date Collected: 04/28/16 12:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 04:16	1
1,1,1-Trichloroethane	**0.40**		0.20		ug/L			05/12/16 04:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 04:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 04:16	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 04:16	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 04:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 04:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 04:16	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 04:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 04:16	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 04:16	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 04:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 04:16	1
2-Butanone	ND		15		ug/L			05/12/16 04:16	1
2-Hexanone	ND		2.0		ug/L			05/12/16 04:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 04:16	1
Acetone	ND		2.0		ug/L			05/12/16 04:16	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 04:16	1
Benzene	ND		0.20		ug/L			05/12/16 04:16	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 04:16	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 04:16	1
Bromoform	ND		0.50		ug/L			05/12/16 04:16	1
Bromomethane	ND		1.0		ug/L			05/12/16 04:16	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 04:16	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 04:16	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 04:16	1
Chloroethane	ND		0.50		ug/L			05/12/16 04:16	1
Chloroform	ND		0.20		ug/L			05/12/16 04:16	1
Chloromethane	ND		0.30		ug/L			05/12/16 04:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 04:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 04:16	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 04:16	1
Dibromomethane	ND		0.20		ug/L			05/12/16 04:16	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 04:16	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 04:16	1
Methyl iodide	ND		0.50		ug/L			05/12/16 04:16	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 04:16	1
o-Xylene	ND		0.50		ug/L			05/12/16 04:16	1
Styrene	ND		0.50		ug/L			05/12/16 04:16	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 04:16	1
Toluene	ND		0.20		ug/L			05/12/16 04:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 04:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 04:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 04:16	1
Trichloroethene	ND		0.20		ug/L			05/12/16 04:16	1
Trichlorofluoromethane	**4.5**		0.50		ug/L			05/12/16 04:16	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 04:16	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 04:16	1

Client Sample ID: 0416-12
Date Collected: 04/28/16 12:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 128*		*05/12/16 04:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*05/12/16 04:16*	*1*
Dibromofluoromethane (Surr)	*94*		*85 - 115*		*05/12/16 04:16*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/12/16 04:16*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*05/12/16 04:16*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		05/05/16 09:03	05/06/16 10:27	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 10:27	1
Magnesium	**85**		1.1		mg/L		05/05/16 09:03	05/06/16 10:27	1
Manganese	**0.069**		0.020		mg/L		05/05/16 09:03	05/06/16 10:27	1
Potassium	**7.0**		3.3		mg/L		05/05/16 09:03	05/06/16 10:27	1
Sodium	**30**		2.0		mg/L		05/05/16 09:03	05/06/16 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Arsenic	**0.0024**		0.0010		mg/L		05/05/16 09:03	05/05/16 20:27	1
Barium	**0.040**		0.0012		mg/L		05/05/16 09:03	05/05/16 20:27	1
Beryllium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Cadmium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Chromium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Cobalt	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Copper	ND		0.0020		mg/L		05/05/16 09:03	05/05/16 20:27	1
Lead	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Nickel	**0.0070**		0.0030		mg/L		05/05/16 09:03	05/05/16 20:27	1
Selenium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:27	1
Silver	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Thallium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:27	1
Vanadium	**0.0046**		0.0040		mg/L		05/05/16 09:03	05/05/16 20:27	1
Zinc	ND		0.0070		mg/L		05/05/16 09:03	05/05/16 20:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 12:24	1
Chloride	**63**		0.90		mg/L			05/13/16 12:24	1
Sulfate	**110**		12		mg/L			05/16/16 11:25	10
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	**45**		2.5		mg/L			05/12/16 12:48	50
Total Organic Carbon	**1.8**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**840**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client Sample ID: 0416-95
Date Collected: 04/28/16 13:20
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 04:42	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 04:42	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 04:42	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 04:42	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 04:42	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 04:42	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 04:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 04:42	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 04:42	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 04:42	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 04:42	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 04:42	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 04:42	1
2-Butanone	ND		15		ug/L			05/12/16 04:42	1
2-Hexanone	ND		2.0		ug/L			05/12/16 04:42	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 04:42	1
Acetone	ND		2.0		ug/L			05/12/16 04:42	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 04:42	1
Benzene	ND		0.20		ug/L			05/12/16 04:42	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 04:42	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 04:42	1
Bromoform	ND		0.50		ug/L			05/12/16 04:42	1
Bromomethane	ND		1.0		ug/L			05/12/16 04:42	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 04:42	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 04:42	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 04:42	1
Chloroethane	ND		0.50		ug/L			05/12/16 04:42	1
Chloroform	ND		0.20		ug/L			05/12/16 04:42	1
Chloromethane	ND		0.30		ug/L			05/12/16 04:42	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 04:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 04:42	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 04:42	1
Dibromomethane	ND		0.20		ug/L			05/12/16 04:42	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 04:42	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 04:42	1
Methyl iodide	ND		0.50		ug/L			05/12/16 04:42	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 04:42	1
o-Xylene	ND		0.50		ug/L			05/12/16 04:42	1
Styrene	ND		0.50		ug/L			05/12/16 04:42	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 04:42	1
Toluene	ND		0.20		ug/L			05/12/16 04:42	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 04:42	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 04:42	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 04:42	1
Trichloroethene	ND		0.20		ug/L			05/12/16 04:42	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 04:42	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 04:42	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 04:42	1

Client Sample ID: 0416-95
Date Collected: 04/28/16 13:20
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 128		05/12/16 04:42	1
4-Bromofluorobenzene (Surr)	102		75 - 120		05/12/16 04:42	1
Dibromofluoromethane (Surr)	95		85 - 115		05/12/16 04:42	1
Toluene-d8 (Surr)	101		75 - 125		05/12/16 04:42	1
Trifluorotoluene (Surr)	101		80 - 127		05/12/16 04:42	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-98
Date Collected: 04/28/16 14:23
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 05:09	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 05:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 05:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 05:09	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 05:09	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 05:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 05:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 05:09	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 05:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 05:09	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 05:09	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 05:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 05:09	1
2-Butanone	ND		15		ug/L			05/12/16 05:09	1
2-Hexanone	ND		2.0		ug/L			05/12/16 05:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 05:09	1
Acetone	ND		2.0		ug/L			05/12/16 05:09	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 05:09	1
Benzene	ND		0.20		ug/L			05/12/16 05:09	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 05:09	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 05:09	1
Bromoform	ND		0.50		ug/L			05/12/16 05:09	1
Bromomethane	ND		1.0		ug/L			05/12/16 05:09	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 05:09	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 05:09	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 05:09	1
Chloroethane	ND		0.50		ug/L			05/12/16 05:09	1
Chloroform	ND		0.20		ug/L			05/12/16 05:09	1
Chloromethane	ND		0.30		ug/L			05/12/16 05:09	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 05:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 05:09	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 05:09	1
Dibromomethane	ND		0.20		ug/L			05/12/16 05:09	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 05:09	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 05:09	1
Methyl iodide	ND		0.50		ug/L			05/12/16 05:09	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 05:09	1
o-Xylene	ND		0.50		ug/L			05/12/16 05:09	1
Styrene	ND		0.50		ug/L			05/12/16 05:09	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 05:09	1
Toluene	ND		0.20		ug/L			05/12/16 05:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 05:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 05:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 05:09	1
Trichloroethene	ND		0.20		ug/L			05/12/16 05:09	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 05:09	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 05:09	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 05:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-98
Date Collected: 04/28/16 14:23
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-13
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 128		05/12/16 05:09	1
4-Bromofluorobenzene (Surr)	100		75 - 120		05/12/16 05:09	1
Dibromofluoromethane (Surr)	95		85 - 115		05/12/16 05:09	1
Toluene-d8 (Surr)	101		75 - 125		05/12/16 05:09	1
Trifluorotoluene (Surr)	104		80 - 127		05/12/16 05:09	1

Client Sample ID: 0416-96
Date Collected: 04/28/16 15:14
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 05:35	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 05:35	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 05:35	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 05:35	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 05:35	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 05:35	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 05:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 05:35	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 05:35	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 05:35	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 05:35	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 05:35	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 05:35	1
2-Butanone	ND		15		ug/L			05/12/16 05:35	1
2-Hexanone	ND		2.0		ug/L			05/12/16 05:35	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 05:35	1
Acetone	ND		2.0		ug/L			05/12/16 05:35	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 05:35	1
Benzene	ND		0.20		ug/L			05/12/16 05:35	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 05:35	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 05:35	1
Bromoform	ND		0.50		ug/L			05/12/16 05:35	1
Bromomethane	ND		1.0		ug/L			05/12/16 05:35	1
Carbon disulfide	**0.28**		0.20		ug/L			05/12/16 05:35	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 05:35	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 05:35	1
Chloroethane	ND		0.50		ug/L			05/12/16 05:35	1
Chloroform	ND		0.20		ug/L			05/12/16 05:35	1
Chloromethane	ND		0.30		ug/L			05/12/16 05:35	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 05:35	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 05:35	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 05:35	1
Dibromomethane	ND		0.20		ug/L			05/12/16 05:35	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 05:35	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 05:35	1
Methyl iodide	ND		0.50		ug/L			05/12/16 05:35	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 05:35	1
o-Xylene	ND		0.50		ug/L			05/12/16 05:35	1
Styrene	ND		0.50		ug/L			05/12/16 05:35	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 05:35	1
Toluene	ND		0.20		ug/L			05/12/16 05:35	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 05:35	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 05:35	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 05:35	1
Trichloroethene	ND		0.20		ug/L			05/12/16 05:35	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 05:35	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 05:35	1
Vinyl chloride	**0.024**		0.020		ug/L			05/12/16 05:35	1

Client Sample ID: 0416-96
Date Collected: 04/28/16 15:14
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 128		05/12/16 05:35	1
4-Bromofluorobenzene (Surr)	98		75 - 120		05/12/16 05:35	1
Dibromofluoromethane (Surr)	96		85 - 115		05/12/16 05:35	1
Toluene-d8 (Surr)	101		75 - 125		05/12/16 05:35	1
Trifluorotoluene (Surr)	101		80 - 127		05/12/16 05:35	1

Client Sample ID: 0416-08
Date Collected: 04/28/16 16:15
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 06:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 06:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 06:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 06:01	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 06:01	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 06:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 06:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 06:01	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 06:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 06:01	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 06:01	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 06:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 06:01	1
2-Butanone	ND		15		ug/L			05/12/16 06:01	1
2-Hexanone	ND		2.0		ug/L			05/12/16 06:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 06:01	1
Acetone	ND		2.0		ug/L			05/12/16 06:01	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 06:01	1
Benzene	ND		0.20		ug/L			05/12/16 06:01	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 06:01	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 06:01	1
Bromoform	ND		0.50		ug/L			05/12/16 06:01	1
Bromomethane	ND		1.0		ug/L			05/12/16 06:01	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 06:01	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 06:01	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 06:01	1
Chloroethane	ND		0.50		ug/L			05/12/16 06:01	1
Chloroform	ND		0.20		ug/L			05/12/16 06:01	1
Chloromethane	ND		0.30		ug/L			05/12/16 06:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 06:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 06:01	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 06:01	1
Dibromomethane	ND		0.20		ug/L			05/12/16 06:01	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 06:01	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 06:01	1
Methyl iodide	ND		0.50		ug/L			05/12/16 06:01	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 06:01	1
o-Xylene	ND		0.50		ug/L			05/12/16 06:01	1
Styrene	ND		0.50		ug/L			05/12/16 06:01	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 06:01	1
Toluene	ND		0.20		ug/L			05/12/16 06:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 06:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 06:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 06:01	1
Trichloroethene	ND		0.20		ug/L			05/12/16 06:01	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 06:01	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 06:01	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 06:01	1

Client Sample ID: 0416-08
Date Collected: 04/28/16 16:15
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-15
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*05/12/16 06:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*05/12/16 06:01*	*1*
Dibromofluoromethane (Surr)	*96*		*85 - 115*		*05/12/16 06:01*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*05/12/16 06:01*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 127*		*05/12/16 06:01*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		05/05/16 09:03	05/06/16 11:11	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 11:11	1
Magnesium	**94**		1.1		mg/L		05/05/16 09:03	05/06/16 11:11	1
Manganese	**0.24**		0.020		mg/L		05/05/16 09:03	05/06/16 11:11	1
Potassium	**10**		3.3		mg/L		05/05/16 09:03	05/06/16 11:11	1
Sodium	**43**		2.0		mg/L		05/05/16 09:03	05/06/16 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Arsenic	**0.0039**		0.0010		mg/L		05/05/16 09:03	05/05/16 20:32	1
Barium	**0.091**		0.0012		mg/L		05/05/16 09:03	05/05/16 20:32	1
Beryllium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Cadmium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Chromium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Cobalt	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Copper	**0.0029**		0.0020		mg/L		05/05/16 09:03	05/05/16 20:32	1
Lead	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Nickel	**0.0084**		0.0030		mg/L		05/05/16 09:03	05/05/16 20:32	1
Selenium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:32	1
Silver	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Thallium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:32	1
Vanadium	ND		0.0040		mg/L		05/05/16 09:03	05/05/16 20:32	1
Zinc	ND		0.0070		mg/L		05/05/16 09:03	05/05/16 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 12:39	1
Chloride	**120**		9.0		mg/L			05/16/16 11:40	10
Sulfate	**59**		1.2		mg/L			05/13/16 12:39	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:50	1
Total Organic Carbon	**2.4**		1.0		mg/L			05/10/16 13:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**560**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**560**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**840**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-09
Date Collected: 04/28/16 17:42
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 06:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 06:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 06:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 06:28	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 06:28	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 06:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 06:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 06:28	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 06:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 06:28	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 06:28	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 06:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 06:28	1
2-Butanone	ND		15		ug/L			05/12/16 06:28	1
2-Hexanone	ND		2.0		ug/L			05/12/16 06:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 06:28	1
Acetone	ND		2.0		ug/L			05/12/16 06:28	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 06:28	1
Benzene	ND		0.20		ug/L			05/12/16 06:28	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 06:28	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 06:28	1
Bromoform	ND		0.50		ug/L			05/12/16 06:28	1
Bromomethane	ND		1.0		ug/L			05/12/16 06:28	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 06:28	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 06:28	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 06:28	1
Chloroethane	ND		0.50		ug/L			05/12/16 06:28	1
Chloroform	ND		0.20		ug/L			05/12/16 06:28	1
Chloromethane	ND		0.30		ug/L			05/12/16 06:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 06:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 06:28	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 06:28	1
Dibromomethane	ND		0.20		ug/L			05/12/16 06:28	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 06:28	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 06:28	1
Methyl iodide	ND		0.50		ug/L			05/12/16 06:28	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 06:28	1
o-Xylene	ND		0.50		ug/L			05/12/16 06:28	1
Styrene	ND		0.50		ug/L			05/12/16 06:28	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 06:28	1
Toluene	ND		0.20		ug/L			05/12/16 06:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 06:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 06:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 06:28	1
Trichloroethene	ND		0.20		ug/L			05/12/16 06:28	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 06:28	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 06:28	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 06:28	1

Client Sample ID: 0416-09
Date Collected: 04/28/16 17:42
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-16
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 128*		*05/12/16 06:28*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/12/16 06:28*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/12/16 06:28*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*05/12/16 06:28*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 127*		*05/12/16 06:28*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65**		1.1		mg/L		05/05/16 09:03	05/06/16 11:14	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 11:14	1
Magnesium	**41**		1.1		mg/L		05/05/16 09:03	05/06/16 11:14	1
Manganese	ND		0.020		mg/L		05/05/16 09:03	05/06/16 11:14	1
Potassium	**6.4**		3.3		mg/L		05/05/16 09:03	05/06/16 11:14	1
Sodium	**24**		2.0		mg/L		05/05/16 09:03	05/06/16 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Arsenic	**0.0034**		0.0010		mg/L		05/05/16 09:03	05/05/16 20:36	1
Barium	**0.029**		0.0012		mg/L		05/05/16 09:03	05/05/16 20:36	1
Beryllium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Cadmium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Chromium	**0.0027**		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Cobalt	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Copper	**0.0075**		0.0020		mg/L		05/05/16 09:03	05/05/16 20:36	1
Lead	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Nickel	ND		0.0030		mg/L		05/05/16 09:03	05/05/16 20:36	1
Selenium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:36	1
Silver	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Thallium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:36	1
Vanadium	ND		0.0040		mg/L		05/05/16 09:03	05/05/16 20:36	1
Zinc	ND		0.0070		mg/L		05/05/16 09:03	05/05/16 20:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 12:53	1
Chloride	**48**		0.90		mg/L			05/13/16 12:53	1
Sulfate	**35**		1.2		mg/L			05/13/16 12:53	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:52	1
Total Organic Carbon	**1.4**		1.0		mg/L			05/13/16 16:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**280**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**280**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**410**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-25
Date Collected: 04/28/16 18:59
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 06:54	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 06:54	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 06:54	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 06:54	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 06:54	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 06:54	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 06:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 06:54	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 06:54	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 06:54	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 06:54	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 06:54	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 06:54	1
2-Butanone	ND		15		ug/L			05/12/16 06:54	1
2-Hexanone	ND		2.0		ug/L			05/12/16 06:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 06:54	1
Acetone	ND		2.0		ug/L			05/12/16 06:54	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 06:54	1
Benzene	ND		0.20		ug/L			05/12/16 06:54	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 06:54	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 06:54	1
Bromoform	ND		0.50		ug/L			05/12/16 06:54	1
Bromomethane	ND		1.0		ug/L			05/12/16 06:54	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 06:54	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 06:54	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 06:54	1
Chloroethane	ND		0.50		ug/L			05/12/16 06:54	1
Chloroform	ND		0.20		ug/L			05/12/16 06:54	1
Chloromethane	ND		0.30		ug/L			05/12/16 06:54	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 06:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 06:54	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 06:54	1
Dibromomethane	ND		0.20		ug/L			05/12/16 06:54	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 06:54	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 06:54	1
Methyl iodide	ND		0.50		ug/L			05/12/16 06:54	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 06:54	1
o-Xylene	ND		0.50		ug/L			05/12/16 06:54	1
Styrene	ND		0.50		ug/L			05/12/16 06:54	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 06:54	1
Toluene	ND		0.20		ug/L			05/12/16 06:54	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 06:54	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 06:54	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 06:54	1
Trichloroethene	ND		0.20		ug/L			05/12/16 06:54	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 06:54	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 06:54	1
Vinyl chloride	**0.16**		0.020		ug/L			05/12/16 06:54	1

Client Sample ID: 0416-25
Date Collected: 04/28/16 18:59
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-17
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 128*		*05/12/16 06:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*05/12/16 06:54*	*1*
Dibromofluoromethane (Surr)	*93*		*85 - 115*		*05/12/16 06:54*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/12/16 06:54*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 127*		*05/12/16 06:54*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		05/05/16 09:03	05/06/16 11:18	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 11:18	1
Magnesium	**110**		1.1		mg/L		05/05/16 09:03	05/06/16 11:18	1
Manganese	**0.040**		0.020		mg/L		05/05/16 09:03	05/06/16 11:18	1
Potassium	**8.7**		3.3		mg/L		05/05/16 09:03	05/06/16 11:18	1
Sodium	**45**		2.0		mg/L		05/05/16 09:03	05/06/16 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Arsenic	**0.0050**		0.0010		mg/L		05/05/16 09:03	05/05/16 20:41	1
Barium	**0.048**		0.0012		mg/L		05/05/16 09:03	05/05/16 20:41	1
Beryllium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Cadmium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Chromium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Cobalt	**0.00070**		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Copper	**0.0026**		0.0020		mg/L		05/05/16 09:03	05/05/16 20:41	1
Lead	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Nickel	**0.0055**		0.0030		mg/L		05/05/16 09:03	05/05/16 20:41	1
Selenium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:41	1
Silver	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Thallium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 20:41	1
Vanadium	**0.0071**		0.0040		mg/L		05/05/16 09:03	05/05/16 20:41	1
Zinc	ND		0.0070		mg/L		05/05/16 09:03	05/05/16 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 13:08	1
Chloride	**83**		0.90		mg/L			05/13/16 13:08	1
Sulfate	**50**		1.2		mg/L			05/13/16 13:08	1
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:54	1
Total Organic Carbon	**2.3**		1.0		mg/L			05/13/16 16:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**740**		5.0		mg/L			05/04/16 13:37	1
Bicarbonate Alkalinity as CaCO3	**740**		5.0		mg/L			05/04/16 13:37	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/16 13:37	1
Total Dissolved Solids	**930**		10		mg/L			05/04/16 15:34	1
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-216919/5
Matrix: Water
Analysis Batch: 216919

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/10/16 22:53	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/10/16 22:53	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/10/16 22:53	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/10/16 22:53	1
1,1-Dichloroethane	ND		0.20		ug/L			05/10/16 22:53	1
1,1-Dichloroethene	ND		0.10		ug/L			05/10/16 22:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/10/16 22:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/10/16 22:53	1
1,2-Dibromoethane	ND		0.10		ug/L			05/10/16 22:53	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/10/16 22:53	1
1,2-Dichloroethane	ND		0.20		ug/L			05/10/16 22:53	1
1,2-Dichloropropane	ND		0.20		ug/L			05/10/16 22:53	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/10/16 22:53	1
2-Butanone	ND		15		ug/L			05/10/16 22:53	1
2-Hexanone	ND		2.0		ug/L			05/10/16 22:53	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/10/16 22:53	1
Acetone	ND		2.0		ug/L			05/10/16 22:53	1
Acrylonitrile	ND		5.0		ug/L			05/10/16 22:53	1
Benzene	ND		0.20		ug/L			05/10/16 22:53	1
Bromochloromethane	ND		0.20		ug/L			05/10/16 22:53	1
Bromodichloromethane	ND		0.20		ug/L			05/10/16 22:53	1
Bromoform	ND		0.50		ug/L			05/10/16 22:53	1
Bromomethane	ND		1.0		ug/L			05/10/16 22:53	1
Carbon disulfide	ND		0.20		ug/L			05/10/16 22:53	1
Carbon tetrachloride	ND		0.20		ug/L			05/10/16 22:53	1
Chlorobenzene	ND		0.20		ug/L			05/10/16 22:53	1
Chloroethane	ND		0.50		ug/L			05/10/16 22:53	1
Chloroform	ND		0.20		ug/L			05/10/16 22:53	1
Chloromethane	ND		0.30		ug/L			05/10/16 22:53	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/10/16 22:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/10/16 22:53	1
Dibromochloromethane	ND		0.20		ug/L			05/10/16 22:53	1
Dibromomethane	ND		0.20		ug/L			05/10/16 22:53	1
Ethylbenzene	ND		0.20		ug/L			05/10/16 22:53	1
m,p-Xylene	ND		0.50		ug/L			05/10/16 22:53	1
Methyl iodide	ND		0.50		ug/L			05/10/16 22:53	1
Methylene Chloride	ND		0.50		ug/L			05/10/16 22:53	1
o-Xylene	ND		0.50		ug/L			05/10/16 22:53	1
Styrene	ND		0.50		ug/L			05/10/16 22:53	1
Tetrachloroethene	ND		0.50		ug/L			05/10/16 22:53	1
Toluene	ND		0.20		ug/L			05/10/16 22:53	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/10/16 22:53	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/10/16 22:53	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/10/16 22:53	1
Trichloroethene	ND		0.20		ug/L			05/10/16 22:53	1
Trichlorofluoromethane	ND		0.50		ug/L			05/10/16 22:53	1
Vinyl acetate	ND		1.0		ug/L			05/10/16 22:53	1
Vinyl chloride	ND		0.020		ug/L			05/10/16 22:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 128		05/10/16 22:53	1
4-Bromofluorobenzene (Surr)	80		75 - 120		05/10/16 22:53	1
Dibromofluoromethane (Surr)	96		85 - 115		05/10/16 22:53	1
Toluene-d8 (Surr)	107		75 - 125		05/10/16 22:53	1
Trifluorotoluene (Surr)	124		80 - 127		05/10/16 22:53	1

Lab Sample ID: LCS 580-216919/6
Matrix: Water
Analysis Batch: 216919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	4.53		ug/L		90	75 - 125
1,1,1-Trichloroethane	5.02	4.44		ug/L		88	80 - 140
1,1,2,2-Tetrachloroethane	5.01	3.69	*	ug/L		74	75 - 125
1,1,2-Trichloroethane	5.02	4.43		ug/L		88	80 - 130
1,1-Dichloroethane	5.00	4.44		ug/L		89	75 - 135
1,1-Dichloroethene	5.04	4.61		ug/L		91	70 - 150
1,2,3-Trichloropropane	5.01	4.06		ug/L		81	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	2.90		ug/L		58	55 - 120
1,2-Dibromoethane	5.01	4.00		ug/L		80	70 - 130
1,2-Dichlorobenzene	5.00	4.44		ug/L		89	80 - 130
1,2-Dichloroethane	5.00	4.56		ug/L		91	80 - 140
1,2-Dichloropropane	5.00	4.65		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.01	4.70		ug/L		94	80 - 120
2-Butanone	25.0	21.5		ug/L		86	20 - 200
2-Hexanone	25.0	19.2		ug/L		77	52 - 160
4-Methyl-2-pentanone	25.0	21.0		ug/L		84	55 - 135
Acetone	25.0	33.0		ug/L		132	30 - 200
Acrylonitrile	50.0	42.3		ug/L		85	65 - 150
Benzene	5.02	5.14		ug/L		102	80 - 120
Bromochloromethane	5.01	4.49		ug/L		90	80 - 125
Bromodichloromethane	5.02	4.29		ug/L		85	80 - 125
Bromoform	5.02	3.50		ug/L		70	65 - 130
Bromomethane	5.01	5.54		ug/L		111	70 - 135
Carbon disulfide	5.02	4.81		ug/L		96	65 - 160
Carbon tetrachloride	5.01	4.30		ug/L		86	75 - 140
Chlorobenzene	5.02	4.59		ug/L		91	80 - 120
Chloroethane	5.02	5.32		ug/L		106	75 - 140
Chloroform	5.00	4.61		ug/L		92	80 - 130
Chloromethane	5.02	4.99		ug/L		99	50 - 140
cis-1,2-Dichloroethene	5.01	4.97		ug/L		99	80 - 130
cis-1,3-Dichloropropene	5.01	4.30		ug/L		86	70 - 120
Dibromochloromethane	5.01	3.88		ug/L		78	70 - 120
Dibromomethane	5.02	4.09		ug/L		82	80 - 130
Ethylbenzene	5.02	4.72		ug/L		94	80 - 125
m,p-Xylene	5.01	4.88		ug/L		97	80 - 130
Methyl iodide	5.02	4.57		ug/L		91	60 - 160
Methylene Chloride	5.02	4.81		ug/L		96	60 - 145
o-Xylene	5.01	5.10		ug/L		102	80 - 120
Styrene	5.01	4.50		ug/L		90	75 - 130
Tetrachloroethene	5.01	4.48		ug/L		89	40 - 180
Toluene	5.00	4.68		ug/L		93	80 - 120
trans-1,2-Dichloroethene	5.01	4.78		ug/L		95	80 - 140
trans-1,3-Dichloropropene	5.00	3.98		ug/L		79	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216919/6
Matrix: Water
Analysis Batch: 216919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	2.20		ug/L		44	40 - 140
Trichloroethene	5.01	4.97		ug/L		99	80 - 130
Trichlorofluoromethane	5.00	4.78		ug/L		96	30 - 180
Vinyl acetate	12.5	3.92		ug/L		31	30 - 200
Vinyl chloride	5.03	4.80		ug/L		95	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 128*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane (Surr)	*95*		*85 - 115*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*102*		*80 - 127*

Lab Sample ID: LCSD 580-216919/7
Matrix: Water
Analysis Batch: 216919

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
1,1,1,2-Tetrachloroethane	5.02	4.54		ug/L		91	75 - 125	0	20
1,1,1-Trichloroethane	5.02	4.45		ug/L		89	80 - 140	0	20
1,1,2,2-Tetrachloroethane	5.01	3.87		ug/L		77	75 - 125	5	20
1,1,2-Trichloroethane	5.02	4.11		ug/L		82	80 - 130	7	20
1,1-Dichloroethane	5.00	4.52		ug/L		90	75 - 135	2	20
1,1-Dichloroethene	5.04	4.69		ug/L		93	70 - 150	2	20
1,2,3-Trichloropropane	5.01	4.15		ug/L		83	75 - 120	2	20
1,2-Dibromo-3-Chloropropane	5.01	3.25		ug/L		65	55 - 120	12	20
1,2-Dibromoethane	5.01	4.00		ug/L		80	70 - 130	0	20
1,2-Dichlorobenzene	5.00	4.61		ug/L		92	80 - 130	4	20
1,2-Dichloroethane	5.00	4.65		ug/L		93	80 - 140	2	20
1,2-Dichloropropane	5.00	4.67		ug/L		93	80 - 120	0	20
1,4-Dichlorobenzene	5.01	4.77		ug/L		95	80 - 120	2	20
2-Butanone	25.0	22.1		ug/L		88	20 - 200	3	20
2-Hexanone	25.0	19.9		ug/L		80	52 - 160	4	20
4-Methyl-2-pentanone	25.0	22.3		ug/L		89	55 - 135	6	20
Acetone	25.0	32.8		ug/L		131	30 - 200	1	20
Acrylonitrile	50.0	42.7		ug/L		85	65 - 150	1	20
Benzene	5.02	5.24		ug/L		104	80 - 120	2	20
Bromochloromethane	5.01	4.61		ug/L		92	80 - 125	3	20
Bromodichloromethane	5.02	4.37		ug/L		87	80 - 125	2	20
Bromoform	5.02	3.53		ug/L		70	65 - 130	1	20
Bromomethane	5.01	5.29		ug/L		106	70 - 135	5	20
Carbon disulfide	5.02	4.84		ug/L		96	65 - 160	1	20
Carbon tetrachloride	5.01	4.36		ug/L		87	75 - 140	1	20
Chlorobenzene	5.02	4.72		ug/L		94	80 - 120	3	20
Chloroethane	5.02	4.75		ug/L		95	75 - 140	11	20
Chloroform	5.00	4.70		ug/L		94	80 - 130	2	20
Chloromethane	5.02	4.80		ug/L		96	50 - 140	4	20
cis-1,2-Dichloroethene	5.01	5.18		ug/L		103	80 - 130	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-216919/7
Matrix: Water
Analysis Batch: 216919

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
cis-1,3-Dichloropropene			5.01	4.52		ug/L		90	70 - 120	5	20
Dibromochloromethane			5.01	4.18		ug/L		83	70 - 120	7	20
Dibromomethane			5.02	4.31		ug/L		86	80 - 130	5	20
Ethylbenzene			5.02	4.80		ug/L		96	80 - 125	2	20
m,p-Xylene			5.01	4.90		ug/L		98	80 - 130	0	20
Methyl iodide			5.02	4.65		ug/L		93	60 - 160	2	20
Methylene Chloride			5.02	5.00		ug/L		100	60 - 145	4	20
o-Xylene			5.01	5.10		ug/L		102	80 - 120	0	20
Styrene			5.01	4.53		ug/L		90	75 - 130	1	20
Tetrachloroethene			5.01	4.53		ug/L		90	40 - 180	1	20
Toluene			5.00	4.56		ug/L		91	80 - 120	2	20
trans-1,2-Dichloroethene			5.01	4.89		ug/L		98	80 - 140	2	20
trans-1,3-Dichloropropene			5.00	4.25		ug/L		85	60 - 140	7	20
trans-1,4-Dichloro-2-butene			5.00	2.32		ug/L		46	40 - 140	5	20
Trichloroethene			5.01	5.16		ug/L		103	80 - 130	4	20
Trichlorofluoromethane			5.00	4.68		ug/L		93	30 - 180	2	20
Vinyl acetate			12.5	4.23		ug/L		34	30 - 200	8	20
Vinyl chloride			5.03	4.66		ug/L		93	65 - 140	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 128*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*
Dibromofluoromethane (Surr)	*97*		*85 - 115*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*80 - 127*

Lab Sample ID: MB 580-216967/5
Matrix: Water
Analysis Batch: 216967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 12:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/11/16 12:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/11/16 12:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/11/16 12:58	1
1,1-Dichloroethane	ND		0.20		ug/L			05/11/16 12:58	1
1,1-Dichloroethene	ND		0.10		ug/L			05/11/16 12:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/11/16 12:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/11/16 12:58	1
1,2-Dibromoethane	ND		0.10		ug/L			05/11/16 12:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/11/16 12:58	1
1,2-Dichloroethane	ND		0.20		ug/L			05/11/16 12:58	1
1,2-Dichloropropane	ND		0.20		ug/L			05/11/16 12:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/11/16 12:58	1
2-Butanone	ND		15		ug/L			05/11/16 12:58	1
2-Hexanone	ND		2.0		ug/L			05/11/16 12:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/11/16 12:58	1
Acetone	ND		2.0		ug/L			05/11/16 12:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-216967/5
Matrix: Water
Analysis Batch: 216967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0		ug/L			05/11/16 12:58	1
Benzene	ND		0.20		ug/L			05/11/16 12:58	1
Bromochloromethane	ND		0.20		ug/L			05/11/16 12:58	1
Bromodichloromethane	ND		0.20		ug/L			05/11/16 12:58	1
Bromoform	ND		0.50		ug/L			05/11/16 12:58	1
Bromomethane	ND		1.0		ug/L			05/11/16 12:58	1
Carbon disulfide	ND		0.20		ug/L			05/11/16 12:58	1
Carbon tetrachloride	ND		0.20		ug/L			05/11/16 12:58	1
Chlorobenzene	ND		0.20		ug/L			05/11/16 12:58	1
Chloroethane	ND		0.50		ug/L			05/11/16 12:58	1
Chloroform	ND		0.20		ug/L			05/11/16 12:58	1
Chloromethane	ND		0.30		ug/L			05/11/16 12:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 12:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/11/16 12:58	1
Dibromochloromethane	ND		0.20		ug/L			05/11/16 12:58	1
Dibromomethane	ND		0.20		ug/L			05/11/16 12:58	1
Ethylbenzene	ND		0.20		ug/L			05/11/16 12:58	1
m,p-Xylene	ND		0.50		ug/L			05/11/16 12:58	1
Methyl iodide	ND		0.50		ug/L			05/11/16 12:58	1
Methylene Chloride	ND		0.50		ug/L			05/11/16 12:58	1
o-Xylene	ND		0.50		ug/L			05/11/16 12:58	1
Styrene	ND		0.50		ug/L			05/11/16 12:58	1
Tetrachloroethene	ND		0.50		ug/L			05/11/16 12:58	1
Toluene	ND		0.20		ug/L			05/11/16 12:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/11/16 12:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/11/16 12:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/11/16 12:58	1
Trichloroethene	ND		0.20		ug/L			05/11/16 12:58	1
Trichlorofluoromethane	ND		0.50		ug/L			05/11/16 12:58	1
Vinyl acetate	ND		1.0		ug/L			05/11/16 12:58	1
Vinyl chloride	ND		0.020		ug/L			05/11/16 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 128*		*05/11/16 12:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/11/16 12:58*	*1*
Dibromofluoromethane (Surr)	*92*		*85 - 115*		*05/11/16 12:58*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/11/16 12:58*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 127*		*05/11/16 12:58*	*1*

Lab Sample ID: LCS 580-216967/6
Matrix: Water
Analysis Batch: 216967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	4.50		ug/L		90	75 - 125
1,1,1-Trichloroethane	5.02	4.19		ug/L		83	80 - 140
1,1,2,2-Tetrachloroethane	5.01	4.48		ug/L		90	75 - 125
1,1,2-Trichloroethane	5.02	4.43		ug/L		88	80 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216967/6
Matrix: Water
Analysis Batch: 216967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	5.00	4.36		ug/L		87	75 - 135
1,1-Dichloroethene	5.04	4.41		ug/L		87	70 - 150
1,2,3-Trichloropropane	5.01	4.22		ug/L		84	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	3.79		ug/L		76	55 - 120
1,2-Dibromoethane	5.01	4.41		ug/L		88	70 - 130
1,2-Dichlorobenzene	5.00	4.49		ug/L		90	80 - 130
1,2-Dichloroethane	5.00	4.44		ug/L		89	80 - 140
1,2-Dichloropropane	5.00	4.52		ug/L		90	80 - 120
1,4-Dichlorobenzene	5.01	4.73		ug/L		94	80 - 120
2-Butanone	25.0	23.4		ug/L		93	20 - 200
2-Hexanone	25.0	21.0		ug/L		84	52 - 160
4-Methyl-2-pentanone	25.0	22.5		ug/L		90	55 - 135
Acetone	25.0	27.6		ug/L		110	30 - 200
Acrylonitrile	50.0	43.1		ug/L		86	65 - 150
Benzene	5.02	5.15		ug/L		103	80 - 120
Bromochloromethane	5.01	4.60		ug/L		92	80 - 125
Bromodichloromethane	5.02	4.41		ug/L		88	80 - 125
Bromoform	5.02	3.31		ug/L		66	65 - 130
Bromomethane	5.01	4.88		ug/L		97	70 - 135
Carbon disulfide	5.02	4.69		ug/L		93	65 - 160
Carbon tetrachloride	5.01	4.05		ug/L		81	75 - 140
Chlorobenzene	5.02	4.73		ug/L		94	80 - 120
Chloroethane	5.02	4.89		ug/L		98	75 - 140
Chloroform	5.00	4.35		ug/L		87	80 - 130
Chloromethane	5.02	4.61		ug/L		92	50 - 140
cis-1,2-Dichloroethene	5.01	4.89		ug/L		98	80 - 130
cis-1,3-Dichloropropene	5.01	4.83		ug/L		96	70 - 120
Dibromochloromethane	5.01	3.92		ug/L		78	70 - 120
Dibromomethane	5.02	4.25		ug/L		85	80 - 130
Ethylbenzene	5.02	4.63		ug/L		92	80 - 125
m,p-Xylene	5.01	4.88		ug/L		97	80 - 130
Methyl iodide	5.02	4.41		ug/L		88	60 - 160
Methylene Chloride	5.02	4.96		ug/L		99	60 - 145
o-Xylene	5.01	4.97		ug/L		99	80 - 120
Styrene	5.01	4.61		ug/L		92	75 - 130
Tetrachloroethene	5.01	4.64		ug/L		93	40 - 180
Toluene	5.00	4.80		ug/L		96	80 - 120
trans-1,2-Dichloroethene	5.01	4.74		ug/L		95	80 - 140
trans-1,3-Dichloropropene	5.00	4.73		ug/L		95	60 - 140
trans-1,4-Dichloro-2-butene	5.00	3.01		ug/L		60	40 - 140
Trichloroethene	5.01	4.53		ug/L		90	80 - 130
Trichlorofluoromethane	5.00	4.09		ug/L		82	30 - 180
Vinyl acetate	12.5	12.1		ug/L		97	30 - 200
Vinyl chloride	5.03	4.05		ug/L		80	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 128*
4-Bromofluorobenzene (Surr)	*97*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-216967/6
Matrix: Water
Analysis Batch: 216967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*94*		*85 - 115*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*108*		*80 - 127*

Lab Sample ID: LCSD 580-216967/7
Matrix: Water
Analysis Batch: 216967

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
1,1,1,2-Tetrachloroethane			5.02	4.57		ug/L		91	75 - 125	2	20
1,1,1-Trichloroethane			5.02	4.52		ug/L		90	80 - 140	8	20
1,1,2,2-Tetrachloroethane			5.01	4.86		ug/L		97	75 - 125	8	20
1,1,2-Trichloroethane			5.02	4.80		ug/L		96	80 - 130	8	20
1,1-Dichloroethane			5.00	4.52		ug/L		90	75 - 135	3	20
1,1-Dichloroethene			5.04	4.79		ug/L		95	70 - 150	8	20
1,2,3-Trichloropropane			5.01	4.57		ug/L		91	75 - 120	8	20
1,2-Dibromo-3-Chloropropane			5.01	4.30		ug/L		86	55 - 120	13	20
1,2-Dibromoethane			5.01	4.64		ug/L		93	70 - 130	5	20
1,2-Dichlorobenzene			5.00	4.69		ug/L		94	80 - 130	4	20
1,2-Dichloroethane			5.00	4.63		ug/L		93	80 - 140	4	20
1,2-Dichloropropane			5.00	4.85		ug/L		97	80 - 120	7	20
1,4-Dichlorobenzene			5.01	4.91		ug/L		98	80 - 120	4	20
2-Butanone			25.0	25.1		ug/L		100	20 - 200	7	20
2-Hexanone			25.0	23.6		ug/L		94	52 - 160	12	20
4-Methyl-2-pentanone			25.0	24.8		ug/L		99	55 - 135	10	20
Acetone			25.0	32.8		ug/L		131	30 - 200	17	20
Acrylonitrile			50.0	47.9		ug/L		96	65 - 150	10	20
Benzene			5.02	5.25		ug/L		105	80 - 120	2	20
Bromochloromethane			5.01	4.77		ug/L		95	80 - 125	4	20
Bromodichloromethane			5.02	4.45		ug/L		89	80 - 125	1	20
Bromoform			5.02	3.72		ug/L		74	65 - 130	11	20
Bromomethane			5.01	5.44		ug/L		109	70 - 135	11	20
Carbon disulfide			5.02	5.11		ug/L		102	65 - 160	8	20
Carbon tetrachloride			5.01	4.36		ug/L		87	75 - 140	7	20
Chlorobenzene			5.02	4.83		ug/L		96	80 - 120	2	20
Chloroethane			5.02	5.30		ug/L		106	75 - 140	8	20
Chloroform			5.00	4.59		ug/L		92	80 - 130	5	20
Chloromethane			5.02	4.71		ug/L		94	50 - 140	2	20
cis-1,2-Dichloroethene			5.01	5.15		ug/L		103	80 - 130	5	20
cis-1,3-Dichloropropene			5.01	4.86		ug/L		97	70 - 120	1	20
Dibromochloromethane			5.01	4.15		ug/L		83	70 - 120	6	20
Dibromomethane			5.02	4.66		ug/L		93	80 - 130	9	20
Ethylbenzene			5.02	4.87		ug/L		97	80 - 125	5	20
m,p-Xylene			5.01	5.06		ug/L		101	80 - 130	4	20
Methyl iodide			5.02	4.72		ug/L		94	60 - 160	7	20
Methylene Chloride			5.02	5.42		ug/L		108	60 - 145	9	20
o-Xylene			5.01	5.16		ug/L		103	80 - 120	4	20
Styrene			5.01	4.79		ug/L		96	75 - 130	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-216967/7
Matrix: Water
Analysis Batch: 216967

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
Tetrachloroethene			5.01	4.72		ug/L		94	40 - 180	2	20
Toluene			5.00	4.92		ug/L		98	80 - 120	2	20
trans-1,2-Dichloroethene			5.01	4.91		ug/L		98	80 - 140	4	20
trans-1,3-Dichloropropene			5.00	4.74		ug/L		95	60 - 140	0	20
trans-1,4-Dichloro-2-butene			5.00	3.51		ug/L		70	40 - 140	15	20
Trichloroethene			5.01	4.54		ug/L		91	80 - 130	0	20
Trichlorofluoromethane			5.00	4.44		ug/L		89	30 - 180	8	20
Vinyl acetate			12.5	11.4		ug/L		91	30 - 200	6	20
Vinyl chloride			5.03	4.57		ug/L		91	65 - 140	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 128*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane (Surr)	*95*		*85 - 115*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*104*		*80 - 127*

Lab Sample ID: MB 580-217036/5
Matrix: Water
Analysis Batch: 217036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 01:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/12/16 01:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/12/16 01:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/12/16 01:13	1
1,1-Dichloroethane	ND		0.20		ug/L			05/12/16 01:13	1
1,1-Dichloroethene	ND		0.10		ug/L			05/12/16 01:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/12/16 01:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/12/16 01:13	1
1,2-Dibromoethane	ND		0.10		ug/L			05/12/16 01:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/12/16 01:13	1
1,2-Dichloroethane	ND		0.20		ug/L			05/12/16 01:13	1
1,2-Dichloropropane	ND		0.20		ug/L			05/12/16 01:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/12/16 01:13	1
2-Butanone	ND		15		ug/L			05/12/16 01:13	1
2-Hexanone	ND		2.0		ug/L			05/12/16 01:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/12/16 01:13	1
Acetone	ND		2.0		ug/L			05/12/16 01:13	1
Acrylonitrile	ND		5.0		ug/L			05/12/16 01:13	1
Benzene	ND		0.20		ug/L			05/12/16 01:13	1
Bromochloromethane	ND		0.20		ug/L			05/12/16 01:13	1
Bromodichloromethane	ND		0.20		ug/L			05/12/16 01:13	1
Bromoform	ND		0.50		ug/L			05/12/16 01:13	1
Bromomethane	ND		1.0		ug/L			05/12/16 01:13	1
Carbon disulfide	ND		0.20		ug/L			05/12/16 01:13	1
Carbon tetrachloride	ND		0.20		ug/L			05/12/16 01:13	1
Chlorobenzene	ND		0.20		ug/L			05/12/16 01:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-217036/5
Matrix: Water
Analysis Batch: 217036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.50		ug/L			05/12/16 01:13	1
Chloroform	ND		0.20		ug/L			05/12/16 01:13	1
Chloromethane	ND		0.30		ug/L			05/12/16 01:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 01:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/12/16 01:13	1
Dibromochloromethane	ND		0.20		ug/L			05/12/16 01:13	1
Dibromomethane	ND		0.20		ug/L			05/12/16 01:13	1
Ethylbenzene	ND		0.20		ug/L			05/12/16 01:13	1
m,p-Xylene	ND		0.50		ug/L			05/12/16 01:13	1
Methyl iodide	ND		0.50		ug/L			05/12/16 01:13	1
Methylene Chloride	ND		0.50		ug/L			05/12/16 01:13	1
o-Xylene	ND		0.50		ug/L			05/12/16 01:13	1
Styrene	ND		0.50		ug/L			05/12/16 01:13	1
Tetrachloroethene	ND		0.50		ug/L			05/12/16 01:13	1
Toluene	ND		0.20		ug/L			05/12/16 01:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/12/16 01:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/12/16 01:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/12/16 01:13	1
Trichloroethene	ND		0.20		ug/L			05/12/16 01:13	1
Trichlorofluoromethane	ND		0.50		ug/L			05/12/16 01:13	1
Vinyl acetate	ND		1.0		ug/L			05/12/16 01:13	1
Vinyl chloride	ND		0.020		ug/L			05/12/16 01:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 128*		*05/12/16 01:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*05/12/16 01:13*	*1*
Dibromofluoromethane (Surr)	*95*		*85 - 115*		*05/12/16 01:13*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/12/16 01:13*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 127*		*05/12/16 01:13*	*1*

Lab Sample ID: LCS 580-217036/6
Matrix: Water
Analysis Batch: 217036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.02	4.54		ug/L		90	75 - 125
1,1,1-Trichloroethane	5.02	4.55		ug/L		91	80 - 140
1,1,2,2-Tetrachloroethane	5.01	3.86		ug/L		77	75 - 125
1,1,2-Trichloroethane	5.02	4.19		ug/L		83	80 - 130
1,1-Dichloroethane	5.00	4.45		ug/L		89	75 - 135
1,1-Dichloroethene	5.04	4.57		ug/L		91	70 - 150
1,2,3-Trichloropropane	5.01	4.06		ug/L		81	75 - 120
1,2-Dibromo-3-Chloropropane	5.01	3.21		ug/L		64	55 - 120
1,2-Dibromoethane	5.01	4.17		ug/L		83	70 - 130
1,2-Dichlorobenzene	5.00	4.48		ug/L		89	80 - 130
1,2-Dichloroethane	5.00	4.57		ug/L		91	80 - 140
1,2-Dichloropropane	5.00	4.50		ug/L		90	80 - 120
1,4-Dichlorobenzene	5.01	4.74		ug/L		95	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-217036/6
Matrix: Water
Analysis Batch: 217036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone	25.0	19.9		ug/L		80	20 - 200
2-Hexanone	25.0	19.8		ug/L		79	52 - 160
4-Methyl-2-pentanone	25.0	21.3		ug/L		85	55 - 135
Acetone	25.0	17.4		ug/L		70	30 - 200
Acrylonitrile	50.0	38.6		ug/L		77	65 - 150
Benzene	5.02	5.20		ug/L		104	80 - 120
Bromochloromethane	5.01	4.53		ug/L		90	80 - 125
Bromodichloromethane	5.02	4.12		ug/L		82	80 - 125
Bromoform	5.02	3.61		ug/L		72	65 - 130
Bromomethane	5.01	5.28		ug/L		105	70 - 135
Carbon disulfide	5.02	4.85		ug/L		97	65 - 160
Carbon tetrachloride	5.01	4.41		ug/L		88	75 - 140
Chlorobenzene	5.02	4.74		ug/L		94	80 - 120
Chloroethane	5.02	5.84		ug/L		116	75 - 140
Chloroform	5.00	4.57		ug/L		91	80 - 130
Chloromethane	5.02	4.55		ug/L		91	50 - 140
cis-1,2-Dichloroethene	5.01	5.04		ug/L		101	80 - 130
cis-1,3-Dichloropropene	5.01	4.35		ug/L		87	70 - 120
Dibromochloromethane	5.01	3.87		ug/L		77	70 - 120
Dibromomethane	5.02	4.20		ug/L		84	80 - 130
Ethylbenzene	5.02	4.82		ug/L		96	80 - 125
m,p-Xylene	5.01	5.09		ug/L		102	80 - 130
Methyl iodide	5.02	4.65		ug/L		93	60 - 160
Methylene Chloride	5.02	4.94		ug/L		98	60 - 145
o-Xylene	5.01	5.21		ug/L		104	80 - 120
Styrene	5.01	4.65		ug/L		93	75 - 130
Tetrachloroethene	5.01	4.52		ug/L		90	40 - 180
Toluene	5.00	4.73		ug/L		95	80 - 120
trans-1,2-Dichloroethene	5.01	4.82		ug/L		96	80 - 140
trans-1,3-Dichloropropene	5.00	4.14		ug/L		83	60 - 140
trans-1,4-Dichloro-2-butene	5.00	2.27		ug/L		45	40 - 140
Trichloroethene	5.01	4.97		ug/L		99	80 - 130
Trichlorofluoromethane	5.00	4.76		ug/L		95	30 - 180
Vinyl acetate	12.5	6.08		ug/L		49	30 - 200
Vinyl chloride	5.03	4.42		ug/L		88	65 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 128*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane (Surr)	*96*		*85 - 115*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*105*		*80 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-217036/7
Matrix: Water
Analysis Batch: 217036

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
1,1,1,2-Tetrachloroethane	5.02	4.62		ug/L		92	75 - 125	2	20
1,1,1-Trichloroethane	5.02	4.44		ug/L		88	80 - 140	3	20
1,1,2,2-Tetrachloroethane	5.01	4.10		ug/L		82	75 - 125	6	20
1,1,2-Trichloroethane	5.02	4.50		ug/L		90	80 - 130	7	20
1,1-Dichloroethane	5.00	4.55		ug/L		91	75 - 135	2	20
1,1-Dichloroethene	5.04	4.56		ug/L		90	70 - 150	0	20
1,2,3-Trichloropropane	5.01	4.23		ug/L		85	75 - 120	4	20
1,2-Dibromo-3-Chloropropane	5.01	3.62		ug/L		72	55 - 120	12	20
1,2-Dibromoethane	5.01	4.50		ug/L		90	70 - 130	8	20
1,2-Dichlorobenzene	5.00	4.70		ug/L		94	80 - 130	5	20
1,2-Dichloroethane	5.00	4.63		ug/L		93	80 - 140	1	20
1,2-Dichloropropane	5.00	4.60		ug/L		92	80 - 120	2	20
1,4-Dichlorobenzene	5.01	4.76		ug/L		95	80 - 120	0	20
2-Butanone	25.0	20.7		ug/L		83	20 - 200	4	20
2-Hexanone	25.0	21.4		ug/L		86	52 - 160	8	20
4-Methyl-2-pentanone	25.0	22.6		ug/L		90	55 - 135	6	20
Acetone	25.0	19.7		ug/L		79	30 - 200	12	20
Acrylonitrile	50.0	43.3		ug/L		87	65 - 150	12	20
Benzene	5.02	5.25		ug/L		105	80 - 120	1	20
Bromochloromethane	5.01	4.67		ug/L		93	80 - 125	3	20
Bromodichloromethane	5.02	4.47		ug/L		89	80 - 125	8	20
Bromoform	5.02	3.63		ug/L		72	65 - 130	1	20
Bromomethane	5.01	4.98		ug/L		100	70 - 135	6	20
Carbon disulfide	5.02	4.73		ug/L		94	65 - 160	3	20
Carbon tetrachloride	5.01	4.30		ug/L		86	75 - 140	3	20
Chlorobenzene	5.02	4.87		ug/L		97	80 - 120	3	20
Chloroethane	5.02	4.80		ug/L		96	75 - 140	20	20
Chloroform	5.00	4.70		ug/L		94	80 - 130	3	20
Chloromethane	5.02	4.62		ug/L		92	50 - 140	2	20
cis-1,2-Dichloroethene	5.01	5.04		ug/L		101	80 - 130	0	20
cis-1,3-Dichloropropene	5.01	4.54		ug/L		90	70 - 120	4	20
Dibromochloromethane	5.01	4.17		ug/L		83	70 - 120	8	20
Dibromomethane	5.02	4.53		ug/L		90	80 - 130	8	20
Ethylbenzene	5.02	4.85		ug/L		97	80 - 125	1	20
m,p-Xylene	5.01	5.01		ug/L		100	80 - 130	2	20
Methyl iodide	5.02	4.58		ug/L		91	60 - 160	1	20
Methylene Chloride	5.02	5.16		ug/L		103	60 - 145	4	20
o-Xylene	5.01	5.18		ug/L		104	80 - 120	1	20
Styrene	5.01	4.79		ug/L		96	75 - 130	3	20
Tetrachloroethene	5.01	4.48		ug/L		89	40 - 180	1	20
Toluene	5.00	4.73		ug/L		95	80 - 120	0	20
trans-1,2-Dichloroethene	5.01	4.81		ug/L		96	80 - 140	0	20
trans-1,3-Dichloropropene	5.00	4.32		ug/L		86	60 - 140	4	20
trans-1,4-Dichloro-2-butene	5.00	2.75		ug/L		55	40 - 140	19	20
Trichloroethene	5.01	4.90		ug/L		98	80 - 130	2	20
Trichlorofluoromethane	5.00	4.31		ug/L		86	30 - 180	10	20
Vinyl acetate	12.5	5.96		ug/L		48	30 - 200	2	20
Vinyl chloride	5.03	4.16		ug/L		83	65 - 140	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 128*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*
Dibromofluoromethane (Surr)	*96*		*85 - 115*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*103*		*80 - 127*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-216193/1-A
Matrix: Water
Analysis Batch: 216520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
2,4-D	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
2,4-DB	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
4-Nitrophenol	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
Dalapon	ND		0.40		ug/L		05/02/16 10:29	05/05/16 19:00	1
Dicamba	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
Dichlorprop	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
Dinoseb	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
MCPA	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
Mecoprop	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
Pentachlorophenol	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		05/02/16 10:29	05/05/16 19:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*133*		*44 - 150*	*05/02/16 10:29*	*05/05/16 19:00*	*1*

Lab Sample ID: LCS 580-216193/2-A
Matrix: Water
Analysis Batch: 216520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	6.51		ug/L		130	47 - 154
2,4-D	5.00	5.52		ug/L		110	45 - 149
2,4-DB	5.05	8.06		ug/L		160	54 - 160
4-Nitrophenol	5.00	5.12		ug/L		102	33 - 137
Dalapon	5.00	0.420	*	ug/L		8	20 - 140
Dicamba	5.00	4.26		ug/L		85	26 - 130
Dichlorprop	5.00	6.01		ug/L		120	33 - 146
Dinoseb	5.00	9.84	*	ug/L		197	35 - 142
MCPA	5.00	6.60		ug/L		132	42 - 138
Mecoprop	5.00	6.65		ug/L		133	47 - 160
Pentachlorophenol	5.00	7.15		ug/L		143	37 - 144
Silvex (2,4,5-TP)	5.00	5.38		ug/L		108	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*133*		*44 - 150*

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: LCSD 580-216193/3-A
Matrix: Water
Analysis Batch: 216520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	7.42		ug/L		148	47 - 154	13	30
2,4-D			5.00	5.96		ug/L		119	45 - 149	8	30
2,4-DB			5.05	7.32		ug/L		145	54 - 160	10	30
4-Nitrophenol			5.00	5.54		ug/L		111	33 - 137	8	30
Dalapon			5.00	0.305	J *	ug/L		6	20 - 140	32	30
Dicamba			5.00	5.66		ug/L		113	26 - 130	28	30
Dichlorprop			5.00	6.46		ug/L		129	33 - 146	7	30
Dinoseb			5.00	10.7	*	ug/L		214	35 - 142	8	30
MCPA			5.00	7.32	*	ug/L		146	42 - 138	10	30
Mecoprop			5.00	7.25		ug/L		145	47 - 160	9	30
Pentachlorophenol			5.00	7.58	*	ug/L		152	37 - 144	6	30
Silvex (2,4,5-TP)			5.00	6.82		ug/L		136	53 - 148	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*139*		*44 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-216471/20-A
Matrix: Water
Analysis Batch: 216630

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/05/16 09:03	05/06/16 10:18	1
Iron	ND		0.30		mg/L		05/05/16 09:03	05/06/16 10:18	1
Magnesium	ND		1.1		mg/L		05/05/16 09:03	05/06/16 10:18	1
Manganese	ND		0.020		mg/L		05/05/16 09:03	05/06/16 10:18	1
Potassium	ND		3.3		mg/L		05/05/16 09:03	05/06/16 10:18	1
Sodium	ND		2.0		mg/L		05/05/16 09:03	05/06/16 10:18	1

Lab Sample ID: LCS 580-216471/21-A
Matrix: Water
Analysis Batch: 216630

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	19.7		mg/L		98	80 - 120
Iron			22.0	21.4		mg/L		97	80 - 120
Magnesium			20.0	19.4		mg/L		97	80 - 120
Manganese			1.00	1.00		mg/L		100	80 - 120
Potassium			20.0	19.8		mg/L		99	80 - 120
Sodium			20.0	18.8		mg/L		94	80 - 120

Lab Sample ID: LCSD 580-216471/22-A
Matrix: Water
Analysis Batch: 216630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	19.8		mg/L		99	80 - 120	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-216471/22-A
Matrix: Water
Analysis Batch: 216630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			22.0	21.6		mg/L		98	80 - 120	1	20
Magnesium			20.0	19.7		mg/L		99	80 - 120	2	20
Manganese			1.00	1.01		mg/L		101	80 - 120	0	20
Potassium			20.0	19.8		mg/L		99	80 - 120	0	20
Sodium			20.0	19.2		mg/L		96	80 - 120	2	20

Lab Sample ID: MB 580-216795/14-A
Matrix: Water
Analysis Batch: 216900

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/09/16 16:15	05/10/16 09:01	1
Iron	ND		0.30		mg/L		05/09/16 16:15	05/10/16 09:01	1
Magnesium	ND		1.1		mg/L		05/09/16 16:15	05/10/16 09:01	1
Manganese	ND		0.020		mg/L		05/09/16 16:15	05/10/16 09:01	1
Potassium	ND		3.3		mg/L		05/09/16 16:15	05/10/16 09:01	1
Sodium	ND		2.0		mg/L		05/09/16 16:15	05/10/16 09:01	1

Lab Sample ID: LCS 580-216795/15-A
Matrix: Water
Analysis Batch: 216900

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216795

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	20.4		mg/L		102	80 - 120
Iron			22.0	22.1		mg/L		100	80 - 120
Magnesium			20.0	20.3		mg/L		102	80 - 120
Manganese			1.00	1.04		mg/L		104	80 - 120
Potassium			20.0	20.6		mg/L		103	80 - 120
Sodium			20.0	19.4		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-216795/16-A
Matrix: Water
Analysis Batch: 216900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216795

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	21.0		mg/L		105	80 - 120	3	20
Iron			22.0	22.8		mg/L		104	80 - 120	3	20
Magnesium			20.0	21.0		mg/L		105	80 - 120	3	20
Manganese			1.00	1.07		mg/L		107	80 - 120	2	20
Potassium			20.0	21.3		mg/L		107	80 - 120	3	20
Sodium			20.0	20.0		mg/L		100	80 - 120	3	20

Lab Sample ID: 580-59194-11 MS
Matrix: Water
Analysis Batch: 216630

Client Sample ID: 0416-12
Prep Type: Dissolved
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	140		20.0	155	4	mg/L		80	75 - 125
Iron	ND		22.0	21.1		mg/L		96	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-59194-11 MS
Matrix: Water
Analysis Batch: 216630

Client Sample ID: 0416-12
Prep Type: Dissolved
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	85		20.0	101	4	mg/L		81	75 - 125
Manganese	0.069		1.00	1.06		mg/L		99	75 - 125
Potassium	7.0		20.0	27.1		mg/L		100	75 - 125
Sodium	30		20.0	47.2		mg/L		86	75 - 125

Lab Sample ID: 580-59194-11 MSD
Matrix: Water
Analysis Batch: 216630

Client Sample ID: 0416-12
Prep Type: Dissolved
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	140		20.0	154	4	mg/L		75	75 - 125	1	20
Iron	ND		22.0	21.1		mg/L		96	75 - 125	0	20
Magnesium	85		20.0	101	4	mg/L		84	75 - 125	1	20
Manganese	0.069		1.00	1.05		mg/L		99	75 - 125	1	20
Potassium	7.0		20.0	26.8		mg/L		99	75 - 125	1	20
Sodium	30		20.0	48.0		mg/L		90	75 - 125	2	20

Lab Sample ID: 580-59194-11 DU
Matrix: Water
Analysis Batch: 216630

Client Sample ID: 0416-12
Prep Type: Dissolved
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	140		135		mg/L		2	20
Iron	ND		ND		mg/L		NC	20
Magnesium	85		82.2		mg/L		3	20
Manganese	0.069		0.0682		mg/L		1	20
Potassium	7.0		6.90		mg/L		2	20
Sodium	30		28.7		mg/L		5	20

Lab Sample ID: 580-59194-1 MS
Matrix: Water
Analysis Batch: 216900

Client Sample ID: 0416-06
Prep Type: Dissolved
Prep Batch: 216795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	100		20.0	120	4	mg/L		91	75 - 125
Iron	ND		22.0	21.8		mg/L		99	75 - 125
Magnesium	34		20.0	53.5		mg/L		97	75 - 125
Manganese	ND		1.00	1.03		mg/L		103	75 - 125
Potassium	5.5		20.0	26.4		mg/L		104	75 - 125
Sodium	17		20.0	36.6		mg/L		97	75 - 125

Lab Sample ID: 580-59194-1 MSD
Matrix: Water
Analysis Batch: 216900

Client Sample ID: 0416-06
Prep Type: Dissolved
Prep Batch: 216795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	100		20.0	124	4	mg/L		110	75 - 125	3	20
Iron	ND		22.0	22.9		mg/L		104	75 - 125	5	20
Magnesium	34		20.0	55.2		mg/L		106	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-59194-1 MSD
Matrix: Water
Analysis Batch: 216900

Client Sample ID: 0416-06
Prep Type: Dissolved
Prep Batch: 216795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	ND		1.00	1.07		mg/L		107	75 - 125	4	20
Potassium	5.5		20.0	27.6		mg/L		110	75 - 125	4	20
Sodium	17		20.0	38.0		mg/L		104	75 - 125	4	20

Lab Sample ID: 580-59194-1 DU
Matrix: Water
Analysis Batch: 216900

Client Sample ID: 0416-06
Prep Type: Dissolved
Prep Batch: 216795

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	100		102		mg/L		0.7	20
Iron	ND		ND		mg/L		NC	20
Magnesium	34		33.8		mg/L		0.9	20
Manganese	ND		ND		mg/L		NC	20
Potassium	5.5		5.44		mg/L		2	20
Sodium	17		17.1		mg/L		0.8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-216197/21-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Arsenic	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:18	1
Barium	ND		0.0012		mg/L		05/02/16 10:47	05/03/16 17:18	1
Beryllium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Cadmium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Chromium	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Cobalt	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Copper	ND		0.0020		mg/L		05/02/16 10:47	05/03/16 17:18	1
Lead	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Nickel	ND		0.0030		mg/L		05/02/16 10:47	05/03/16 17:18	1
Selenium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:18	1
Silver	ND		0.00040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Thallium	ND		0.0010		mg/L		05/02/16 10:47	05/03/16 17:18	1
Vanadium	ND		0.0040		mg/L		05/02/16 10:47	05/03/16 17:18	1
Zinc	ND		0.0070		mg/L		05/02/16 10:47	05/03/16 17:18	1

Lab Sample ID: LCS 580-216197/22-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.00		mg/L		100	80 - 120
Arsenic	4.00	4.03		mg/L		101	80 - 120
Barium	4.00	4.06		mg/L		101	80 - 120
Beryllium	0.100	0.0984		mg/L		98	80 - 120
Cadmium	0.100	0.0974		mg/L		97	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-216197/22-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.400	0.410		mg/L		102	80 - 120
Cobalt	1.00	0.993		mg/L		99	80 - 120
Copper	0.500	0.484		mg/L		97	80 - 120
Lead	1.00	0.989		mg/L		99	80 - 120
Nickel	1.00	1.02		mg/L		102	80 - 120
Selenium	4.00	4.01		mg/L		100	80 - 120
Silver	0.600	0.611		mg/L		102	80 - 120
Thallium	4.00	3.94		mg/L		99	80 - 120
Vanadium	1.00	1.00		mg/L		100	80 - 120
Zinc	4.00	4.07		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-216197/23-A
Matrix: Water
Analysis Batch: 216361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.98		mg/L		99	80 - 120	1	20
Arsenic	4.00	4.00		mg/L		100	80 - 120	1	20
Barium	4.00	4.00		mg/L		100	80 - 120	1	20
Beryllium	0.100	0.102		mg/L		102	80 - 120	3	20
Cadmium	0.100	0.108		mg/L		108	80 - 120	10	20
Chromium	0.400	0.409		mg/L		102	80 - 120	0	20
Cobalt	1.00	0.992		mg/L		99	80 - 120	0	20
Copper	0.500	0.476		mg/L		95	80 - 120	2	20
Lead	1.00	0.988		mg/L		99	80 - 120	0	20
Nickel	1.00	0.988		mg/L		99	80 - 120	3	20
Selenium	4.00	4.02		mg/L		101	80 - 120	0	20
Silver	0.600	0.607		mg/L		101	80 - 120	1	20
Thallium	4.00	3.95		mg/L		99	80 - 120	0	20
Vanadium	1.00	1.01		mg/L		101	80 - 120	1	20
Zinc	4.00	4.03		mg/L		101	80 - 120	1	20

Lab Sample ID: 580-59194-1 MS
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-06
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.10		mg/L		103	80 - 120
Arsenic	0.0029		4.00	4.12		mg/L		103	80 - 120
Barium	0.032		4.00	4.18		mg/L		104	80 - 120
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120
Chromium	0.0042		0.400	0.430		mg/L		106	80 - 120
Cobalt	ND		1.00	1.03		mg/L		102	80 - 120
Copper	0.0033		0.500	0.489		mg/L		97	80 - 120
Lead	ND		1.00	1.02		mg/L		102	80 - 120
Nickel	0.0053		1.00	1.04		mg/L		103	80 - 120
Selenium	ND		4.00	4.17		mg/L		104	80 - 120
Silver	ND		0.600	0.626		mg/L		104	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-59194-1 MS
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-06
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	ND		4.00	4.09		mg/L		102	80 - 120
Vanadium	0.0055		1.00	1.07		mg/L		107	80 - 120
Zinc	ND		4.00	4.14		mg/L		103	80 - 120

Lab Sample ID: 580-59194-1 MSD
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-06
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.06		mg/L		102	80 - 120	1	20
Arsenic	0.0029		4.00	4.10		mg/L		102	80 - 120	0	20
Barium	0.032		4.00	4.14		mg/L		103	80 - 120	1	20
Beryllium	ND		0.100	0.100		mg/L		100	80 - 120	4	20
Cadmium	ND		0.100	0.107		mg/L		107	80 - 120	2	20
Chromium	0.0042		0.400	0.425		mg/L		105	80 - 120	1	20
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120	2	20
Copper	0.0033		0.500	0.489		mg/L		97	80 - 120	0	20
Lead	ND		1.00	1.00		mg/L		100	80 - 120	1	20
Nickel	0.0053		1.00	1.00		mg/L		100	80 - 120	3	20
Selenium	ND		4.00	4.13		mg/L		103	80 - 120	1	20
Silver	ND		0.600	0.616		mg/L		103	80 - 120	2	20
Thallium	ND		4.00	4.05		mg/L		101	80 - 120	1	20
Vanadium	0.0055		1.00	1.04		mg/L		104	80 - 120	3	20
Zinc	ND		4.00	4.07		mg/L		102	80 - 120	2	20

Lab Sample ID: 580-59194-1 DU
Matrix: Water
Analysis Batch: 216361

Client Sample ID: 0416-06
Prep Type: Total Recoverable
Prep Batch: 216197

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0029		0.00274		mg/L		5	20
Barium	0.032		0.0295		mg/L		7	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0042		0.00403		mg/L		4	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0033		0.00316		mg/L		4	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0053		0.00477		mg/L		10	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0055		0.00527		mg/L		4	20
Zinc	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-216471/20-A
Matrix: Water
Analysis Batch: 216585

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Arsenic	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 19:33	1
Barium	ND		0.0012		mg/L		05/05/16 09:03	05/05/16 19:33	1
Beryllium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Cadmium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Chromium	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Cobalt	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Copper	ND		0.0020		mg/L		05/05/16 09:03	05/05/16 19:33	1
Lead	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Nickel	ND		0.0030		mg/L		05/05/16 09:03	05/05/16 19:33	1
Selenium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 19:33	1
Silver	ND		0.00040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Thallium	ND		0.0010		mg/L		05/05/16 09:03	05/05/16 19:33	1
Vanadium	ND		0.0040		mg/L		05/05/16 09:03	05/05/16 19:33	1
Zinc	ND		0.0070		mg/L		05/05/16 09:03	05/05/16 19:33	1

Lab Sample ID: LCS 580-216471/21-A
Matrix: Water
Analysis Batch: 216585

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.86		mg/L		95	80 - 120
Arsenic	4.00	3.93		mg/L		98	80 - 120
Barium	4.00	3.89		mg/L		97	80 - 120
Beryllium	0.100	0.102		mg/L		102	80 - 120
Cadmium	0.100	0.0983		mg/L		98	80 - 120
Chromium	0.400	0.393		mg/L		98	80 - 120
Cobalt	1.00	0.973		mg/L		97	80 - 120
Copper	0.500	0.450		mg/L		90	80 - 120
Lead	1.00	0.963		mg/L		96	80 - 120
Nickel	1.00	0.990		mg/L		99	80 - 120
Selenium	4.00	3.83		mg/L		96	80 - 120
Silver	0.600	0.595		mg/L		99	80 - 120
Thallium	4.00	3.85		mg/L		96	80 - 120
Vanadium	1.00	0.973		mg/L		97	80 - 120
Zinc	4.00	3.89		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-216471/22-A
Matrix: Water
Analysis Batch: 216585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.84		mg/L		95	80 - 120	1	20
Arsenic	4.00	3.93		mg/L		98	80 - 120	0	20
Barium	4.00	3.87		mg/L		97	80 - 120	0	20
Beryllium	0.100	0.102		mg/L		102	80 - 120	0	20
Cadmium	0.100	0.0977		mg/L		98	80 - 120	1	20
Chromium	0.400	0.392		mg/L		98	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-216471/22-A
Matrix: Water
Analysis Batch: 216585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	0.977		mg/L		98	80 - 120	0	20
Copper			0.500	0.464		mg/L		93	80 - 120	3	20
Lead			1.00	0.962		mg/L		96	80 - 120	0	20
Nickel			1.00	1.01		mg/L		101	80 - 120	1	20
Selenium			4.00	3.91		mg/L		98	80 - 120	2	20
Silver			0.600	0.597		mg/L		100	80 - 120	0	20
Thallium			4.00	3.85		mg/L		96	80 - 120	0	20
Vanadium			1.00	0.983		mg/L		98	80 - 120	1	20
Zinc			4.00	3.89		mg/L		97	80 - 120	0	20

Lab Sample ID: 580-59194-11 MS
Matrix: Water
Analysis Batch: 216585

Client Sample ID: 0416-12
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.16		mg/L		105	80 - 120
Arsenic	ND		4.00	4.29		mg/L		107	80 - 120
Barium	0.037		4.00	4.35		mg/L		108	80 - 120
Beryllium	ND		0.100	0.109		mg/L		109	80 - 120
Cadmium	ND		0.100	0.110		mg/L		110	80 - 120
Chromium	ND		0.400	0.438		mg/L		110	80 - 120
Cobalt	ND		1.00	1.06		mg/L		106	80 - 120
Copper	ND		0.500	0.501		mg/L		100	80 - 120
Lead	ND		1.00	1.06		mg/L		106	80 - 120
Nickel	ND		1.00	1.08		mg/L		107	80 - 120
Selenium	ND		4.00	4.25		mg/L		106	80 - 120
Silver	ND		0.600	0.653		mg/L		109	80 - 120
Thallium	ND		4.00	4.26		mg/L		107	80 - 120
Vanadium	ND		1.00	1.08		mg/L		108	80 - 120
Zinc	ND		4.00	4.20		mg/L		105	80 - 120

Lab Sample ID: 580-59194-11 MSD
Matrix: Water
Analysis Batch: 216585

Client Sample ID: 0416-12
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.99		mg/L		100	80 - 120	6	20
Arsenic	ND		4.00	4.10		mg/L		102	80 - 120	5	20
Barium	0.037		4.00	4.09		mg/L		101	80 - 120	6	20
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120	4	20
Cadmium	ND		0.100	0.0984		mg/L		98	80 - 120	11	20
Chromium	ND		0.400	0.408		mg/L		102	80 - 120	7	20
Cobalt	ND		1.00	1.00		mg/L		100	80 - 120	6	20
Copper	ND		0.500	0.462		mg/L		92	80 - 120	8	20
Lead	ND		1.00	1.01		mg/L		101	80 - 120	5	20
Nickel	ND		1.00	1.01		mg/L		100	80 - 120	6	20
Selenium	ND		4.00	4.06		mg/L		102	80 - 120	4	20
Silver	ND		0.600	0.615		mg/L		102	80 - 120	6	20
Thallium	ND		4.00	4.07		mg/L		102	80 - 120	5	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-59194-11 MSD
Matrix: Water
Analysis Batch: 216585

Client Sample ID: 0416-12
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	1.02		mg/L		102	80 - 120	5	20
Zinc	ND		4.00	4.01		mg/L		100	80 - 120	4	20

Lab Sample ID: 580-59194-11 DU
Matrix: Water
Analysis Batch: 216585

Client Sample ID: 0416-12
Prep Type: Total Recoverable
Prep Batch: 216471

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Barium	0.037		0.0396		mg/L		7	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-217307/24
Matrix: Water
Analysis Batch: 217307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/12/16 09:32	1
Chloride	ND		0.90		mg/L			05/12/16 09:32	1
Sulfate	ND		1.2		mg/L			05/12/16 09:32	1

Lab Sample ID: LCS 580-217307/25
Matrix: Water
Analysis Batch: 217307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.86		mg/L		97	90 - 110
Chloride	50.0	49.1		mg/L		98	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-217307/26
Matrix: Water
Analysis Batch: 217307

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
Fluoride	5.00	4.87		mg/L		97	90 - 110	0	15
Chloride	50.0	49.1		mg/L		98	90 - 110	0	15
Sulfate	50.0	48.6		mg/L		97	90 - 110	0	15

Lab Sample ID: 580-59194-1 MS
Matrix: Water
Analysis Batch: 217307

Client Sample ID: 0416-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND	F1	5.00	8.16	F1	mg/L		163	90 - 110
Chloride	20	F1	50.0	96.9	F1	mg/L		154	90 - 110
Sulfate	64	F1	50.0	133	F1	mg/L		139	90 - 110

Lab Sample ID: 580-59194-1 MSD
Matrix: Water
Analysis Batch: 217307

Client Sample ID: 0416-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1	5.00	7.88	F1	mg/L		158	90 - 110	3	15
Chloride	20	F1	50.0	94.0	F1	mg/L		148	90 - 110	3	15
Sulfate	64	F1	50.0	129	F1	mg/L		131	90 - 110	3	15

Lab Sample ID: MB 580-217347/3
Matrix: Water
Analysis Batch: 217347

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/13/16 08:30	1
Chloride	ND		0.90		mg/L			05/13/16 08:30	1
Sulfate	ND		1.2		mg/L			05/13/16 08:30	1

Lab Sample ID: LCS 580-217347/4
Matrix: Water
Analysis Batch: 217347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.84		mg/L		97	90 - 110
Chloride	50.0	48.9		mg/L		98	90 - 110
Sulfate	50.0	48.4		mg/L		97	90 - 110

Lab Sample ID: LCSD 580-217347/5
Matrix: Water
Analysis Batch: 217347

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
Fluoride	5.00	4.85		mg/L		97	90 - 110	0	15
Chloride	50.0	49.0		mg/L		98	90 - 110	0	15
Sulfate	50.0	48.6		mg/L		97	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-217064/1-A
Matrix: Water
Analysis Batch: 217182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/12/16 05:27	05/13/16 07:55	1

Lab Sample ID: LCS 580-217064/2-A
Matrix: Water
Analysis Batch: 217182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.88		mg/L		94	90 - 110

Lab Sample ID: 580-59194-1 MS
Matrix: Water
Analysis Batch: 217182

Client Sample ID: 0416-06
Prep Type: Total/NA
Prep Batch: 217064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		2.00	2.06		mg/L		103	90 - 110

Lab Sample ID: 580-59194-1 MSD
Matrix: Water
Analysis Batch: 217182

Client Sample ID: 0416-06
Prep Type: Total/NA
Prep Batch: 217064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.02		mg/L		101	90 - 110	2	20

Lab Sample ID: 580-59194-1 DU
Matrix: Water
Analysis Batch: 217182

Client Sample ID: 0416-06
Prep Type: Total/NA
Prep Batch: 217064

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 320-109742/15
Matrix: Water
Analysis Batch: 109742

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			05/12/16 12:16	1

Lab Sample ID: LCS 320-109742/16
Matrix: Water
Analysis Batch: 109742

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	1.00	1.02		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-59194-2 MS
Matrix: Water
Analysis Batch: 109742

Client Sample ID: 0416-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.082		1.00	1.07		mg/L		99	90 - 110

Lab Sample ID: 580-59194-2 MSD
Matrix: Water
Analysis Batch: 109742

Client Sample ID: 0416-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.082		1.00	1.07		mg/L		99	90 - 110	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-216209/2
Matrix: Water
Analysis Batch: 216209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity			100	99.4		mg/L		99	85 - 115

Lab Sample ID: 580-59194-8 DU
Matrix: Water
Analysis Batch: 216209

Client Sample ID: 0416-29
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	310			320		mg/L				3	17
Bicarbonate Alkalinity as CaCO3	310			320		mg/L				3	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Lab Sample ID: LCS 580-216437/2
Matrix: Water
Analysis Batch: 216437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity			100	97.0		mg/L		97	85 - 115

Lab Sample ID: 580-59194-15 DU
Matrix: Water
Analysis Batch: 216437

Client Sample ID: 0416-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	560			574		mg/L					17
Bicarbonate Alkalinity as CaCO3	560			574		mg/L					20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L					20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L					20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-216355/1
Matrix: Water
Analysis Batch: 216355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/03/16 21:10	1

Lab Sample ID: LCS 580-216355/2
Matrix: Water
Analysis Batch: 216355

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			1000	978		mg/L		98	80 - 120		

Lab Sample ID: MB 580-216423/1
Matrix: Water
Analysis Batch: 216423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/04/16 15:34	1

Lab Sample ID: LCS 580-216423/2
Matrix: Water
Analysis Batch: 216423

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			1000	990		mg/L		99	80 - 120		

Lab Sample ID: 580-59194-2 DU
Matrix: Water
Analysis Batch: 216423

Client Sample ID: 0416-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	390			381		mg/L				2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-216863/3-A
Matrix: Water
Analysis Batch: 216891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216863

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/10/16 11:25	05/10/16 11:25	1

Lab Sample ID: LCS 580-216863/4-A
Matrix: Water
Analysis Batch: 216891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216863

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	72.0		mg/L		96	80 - 120		

Method: SM 5220D - COD (Continued)

Lab Sample ID: 580-59194-1 MS
Matrix: Water
Analysis Batch: 216891

Client Sample ID: 0416-06
Prep Type: Total/NA
Prep Batch: 216863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		25.0	22.7		mg/L		91	75 - 125

Lab Sample ID: 580-59194-1 DU
Matrix: Water
Analysis Batch: 216891

Client Sample ID: 0416-06
Prep Type: Total/NA
Prep Batch: 216863

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-216957/3
Matrix: Water
Analysis Batch: 216957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/10/16 13:52	1

Lab Sample ID: LCS 580-216957/4
Matrix: Water
Analysis Batch: 216957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.2		mg/L		102	85 - 115

Lab Sample ID: LCSD 580-216957/5
Matrix: Water
Analysis Batch: 216957

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
Total Organic Carbon	10.0	10.3		mg/L		103	85 - 115	1	20

Lab Sample ID: MB 580-216959/1
Matrix: Water
Analysis Batch: 216959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/10/16 19:29	1

Lab Sample ID: LCS 580-216959/2
Matrix: Water
Analysis Batch: 216959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	11.4		mg/L		114	85 - 115

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 580-217256/1
Matrix: Water
Analysis Batch: 217256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/13/16 16:37	1

Lab Sample ID: LCS 580-217256/2
Matrix: Water
Analysis Batch: 217256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.75		mg/L		98	85 - 115

Lab Sample ID: 580-59194-16 MS
Matrix: Water
Analysis Batch: 217256

Client Sample ID: 0416-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.4		10.0	12.2		mg/L		108	85 - 115

Lab Sample ID: 580-59194-16 MSD
Matrix: Water
Analysis Batch: 217256

Client Sample ID: 0416-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.4		10.0	11.8		mg/L		103	85 - 115	4	20

Lab Sample ID: 580-59194-16 DU
Matrix: Water
Analysis Batch: 217256

Client Sample ID: 0416-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.4		1.40		mg/L		3	20

Client Sample ID: 0416-06

Date Collected: 04/27/16 09:45
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 01:04	CJ	TAL SEA
Dissolved	Prep	3005A			216795	05/09/16 16:15	PAB	TAL SEA
Dissolved	Analysis	6010C		1	216900	05/10/16 09:10	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 17:38	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 10:34	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		10	109742	05/12/16 12:20	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216355	05/03/16 21:10	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216959	05/10/16 19:29	RSB	TAL SEA

Client Sample ID: 0416-07

Date Collected: 04/27/16 11:16
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 01:30	CJ	TAL SEA
Dissolved	Prep	3005A			216795	05/09/16 16:15	PAB	TAL SEA
Dissolved	Analysis	6010C		1	216900	05/10/16 09:38	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:18	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 11:18	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:22	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-28

Date Collected: 04/27/16 13:00
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 01:56	CJ	TAL SEA
Dissolved	Prep	3005A			216795	05/09/16 16:15	PAB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-28
Date Collected: 04/27/16 13:00
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	216900	05/10/16 09:41	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:23	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 11:32	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 13:11	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-27
Date Collected: 04/27/16 13:50
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 02:22	CJ	TAL SEA
Dissolved	Prep	3005A			216795	05/09/16 16:15	PAB	TAL SEA
Dissolved	Analysis	6010C		1	216900	05/10/16 09:44	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:28	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 11:47	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:30	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-05
Date Collected: 04/27/16 15:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 02:48	CJ	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 10:55	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA

Client Sample ID: 0416-05

Date Collected: 04/27/16 15:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:33	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 12:01	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:32	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-97

Date Collected: 04/27/16 16:10
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 03:15	CJ	TAL SEA

Client Sample ID: 0416-26

Date Collected: 04/27/16 17:08
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216967	05/11/16 20:24	TL1	TAL SEA
Total/NA	Prep	8151A			216193	05/02/16 10:29	ERZ	TAL SEA
Total/NA	Analysis	8151A		1	216520	05/06/16 00:19	ERZ	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 10:58	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:38	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 12:15	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		20	109742	05/12/16 12:34	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-29

Date Collected: 04/27/16 18:10
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	216919	05/11/16 04:07	CJ	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 11:01	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:43	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217307	05/12/16 12:30	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:42	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-18

Date Collected: 04/28/16 09:06
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 03:23	TL1	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 11:05	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217347	05/13/16 11:56	RSB	TAL SEA
Total/NA	Analysis	300.0		10	217347	05/16/16 11:11	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		10	109742	05/12/16 12:44	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-17

Date Collected: 04/28/16 10:40
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 03:50	TL1	TAL SEA

Client Sample ID: 0416-17

Date Collected: 04/28/16 10:40
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 11:08	HJM	TAL SEA
Total Recoverable	Prep	3005A			216197	05/02/16 10:47	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216361	05/03/16 18:53	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217347	05/13/16 12:10	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		2	109742	05/12/16 12:46	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216209	05/02/16 12:45	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-12

Date Collected: 04/28/16 12:05
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 04:16	TL1	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 10:27	HJM	TAL SEA
Total Recoverable	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216585	05/05/16 20:27	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217347	05/13/16 12:24	RSB	TAL SEA
Total/NA	Analysis	300.0		10	217347	05/16/16 11:25	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		50	109742	05/12/16 12:48	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-95

Date Collected: 04/28/16 13:20
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 04:42	TL1	TAL SEA

Client Sample ID: 0416-98
Date Collected: 04/28/16 14:23
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 05:09	TL1	TAL SEA

Client Sample ID: 0416-96
Date Collected: 04/28/16 15:14
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 05:35	TL1	TAL SEA

Client Sample ID: 0416-08
Date Collected: 04/28/16 16:15
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 06:01	TL1	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 11:11	HJM	TAL SEA
Total Recoverable	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216585	05/05/16 20:32	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217347	05/13/16 12:39	RSB	TAL SEA
Total/NA	Analysis	300.0		10	217347	05/16/16 11:40	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:50	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	216957	05/10/16 13:52	RSB	TAL SEA

Client Sample ID: 0416-09
Date Collected: 04/28/16 17:42
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 06:28	TL1	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 11:14	HJM	TAL SEA
Total Recoverable	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216585	05/05/16 20:36	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217347	05/13/16 12:53	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Client Sample ID: 0416-09

Date Collected: 04/28/16 17:42
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:52	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	217256	05/13/16 16:37	Z1T	TAL SEA

Client Sample ID: 0416-25

Date Collected: 04/28/16 18:59
Date Received: 04/29/16 13:08

Lab Sample ID: 580-59194-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	217036	05/12/16 06:54	TL1	TAL SEA
Dissolved	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Dissolved	Analysis	6010C		1	216630	05/06/16 11:18	HJM	TAL SEA
Total Recoverable	Prep	3005A			216471	05/05/16 09:03	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	216585	05/05/16 20:41	FCW	TAL SEA
Total/NA	Analysis	300.0		1	217347	05/13/16 13:08	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			217064	05/12/16 05:27	SPP	TAL SEA
Total/NA	Analysis	350.1		1	217182	05/13/16 07:55	SPP	TAL SEA
Total/NA	Analysis	353.2		1	109742	05/12/16 12:54	JMD	TAL SAC
Total/NA	Analysis	SM 2320B		1	216437	05/04/16 13:37	JSM	TAL SEA
Total/NA	Analysis	SM 2540C		1	216423	05/04/16 15:34	JSM	TAL SEA
Total/NA	Analysis	SM 5220D		1	216891	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Prep	SM 5220			216863	05/10/16 11:25	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	217256	05/13/16 16:37	Z1T	TAL SEA

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane
8260B		Water	1,2-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	2-Butanone
8260B		Water	2-Hexanone
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Acrylonitrile
8260B		Water	Benzene
8260B		Water	Bromochloromethane
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Ethylbenzene
8260B		Water	m,p-Xylene
8260B		Water	Methyl iodide
8260B		Water	Methylene Chloride
8260B		Water	o-Xylene
8260B		Water	Styrene
8260B		Water	Tetrachloroethene
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	trans-1,4-Dichloro-2-butene
8260B		Water	Trichloroethene
8260B		Water	Trichlorofluoromethane

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Vinyl acetate
8260B		Water	Vinyl chloride
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Laboratory: TestAmerica Sacramento

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		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-17
California	State Program	9	2897	01-31-17
Colorado	State Program	8	CA00044	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	07-31-16
Louisiana	NELAP	6	30612	06-30-16
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-17
Oregon	NELAP	10	4040	01-29-17
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	CA00044	02-28-17
Virginia	NELAP	3	460278	03-14-17
Washington	State Program	10	C581	05-05-17
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-L	01-29-17

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-59194-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-59194-1	0416-06	Water	04/27/16 09:45	04/29/16 13:08
580-59194-2	0416-07	Water	04/27/16 11:16	04/29/16 13:08
580-59194-3	0416-28	Water	04/27/16 13:00	04/29/16 13:08
580-59194-4	0416-27	Water	04/27/16 13:50	04/29/16 13:08
580-59194-5	0416-05	Water	04/27/16 15:05	04/29/16 13:08
580-59194-6	0416-97	Water	04/27/16 16:10	04/29/16 13:08
580-59194-7	0416-26	Water	04/27/16 17:08	04/29/16 13:08
580-59194-8	0416-29	Water	04/27/16 18:10	04/29/16 13:08
580-59194-9	0416-18	Water	04/28/16 09:06	04/29/16 13:08
580-59194-10	0416-17	Water	04/28/16 10:40	04/29/16 13:08
580-59194-11	0416-12	Water	04/28/16 12:05	04/29/16 13:08
580-59194-12	0416-95	Water	04/28/16 13:20	04/29/16 13:08
580-59194-13	0416-98	Water	04/28/16 14:23	04/29/16 13:08
580-59194-14	0416-96	Water	04/28/16 15:14	04/29/16 13:08
580-59194-15	0416-08	Water	04/28/16 16:15	04/29/16 13:08
580-59194-16	0416-09	Water	04/28/16 17:42	04/29/16 13:08
580-59194-17	0416-25	Water	04/28/16 18:59	04/29/16 13:08

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

59194

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/17/2016

Client Information	Sampler: Sam Gruber	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-19558-6350.3
Client Contact: Joantha Guthrie	Phone: (612) 940 - 2480	E-Mail: sarah.murphy@testamericainc.com		Page: Page 3 of 4
Company: Island County Public Works				Job #: 042007033.09
Address: 1 NE 6th Street	Due Date Requested: Standard			
City: Coupeville	TAT Requested (days):			
State, Zip: WA, 98239				
Phone: 425-289-5455(Tel)	PO #: Purchase Order Requested			
Email: joanthag@co.island.wa.us	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1 - Ammonia	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	2540C - Total Dissolved Solids	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	D	S	S	A	N	N		
0416 - 06	4/27/16	945	G	Water	Y	N	X	X	X	X	X	X	X	X		12	
0416 - 07	"	1116	"	Water	"	"	"	"	"	"	"	"	"	"		"	
0416 - 28	"	1300	"	Water	"	"	"	"	"	"	"	"	"	"		"	
0416 - 27	"	1350	"	Water	"	"	"	"	"	"	"	"	"	"		"	
0416 - 05	"	1505	"	Water	"	"	"	"	"	"	"	"	"	"		"	
0416 - 97	"	1610	"	Water	N	"							X			3	
0416 - 26	"	1708	"	Water	Y	"	X	X	X	X	X	X	X	X	X	14	
0416 - 29	"	1810	"	Water	"	"	"	"	"	"	"	"	"	"		12	
0416 - 18	4/28/16	906	"	Water	"	"	"	"	"	"	"	"	"	"		"	
0416 - 17	"	1040	"	Water	"	"	"	"	"	"	"	"	"	"		"	
0416 - 12	"	1205	"	Water	"	"	"	"	"	"	"	"	"	"		"	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sampl
☐ Return To Client ☒ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

580-59194 Chain of Custody

Empty Kit Relinquished by:	Date:	Time:	Method of Shipm

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sam Gruber	4/29/16 1230	SCS	[illegible]	4/29/16 1305	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/17/2016

Client Information	Sampler: Sam Graber	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-19558-6350.4
Client Contact: Joantha Guthrie	Phone: (612) 940-7980	E-Mail: sarah.murphy@testamericainc.com		Page: Page 4 of 4
Company: Island County Public Works				Job #: 042007033.09

Address: 1 NE 6th Street	Due Date Requested: Standard
City: Coupeville	TAT Requested (days):
State, Zip: WA, 98239	PO #: Purchase Order Requested
Phone: 425-289-5455(Tel)	WO #:
Email: joanthag@co.island.wa.us	Project #: 58009563
Project Name: Coupeville Solid Waste Facility Groundwa	SSOW#:
Site: ↑	

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 - Na2S2O3
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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1 - Ammonia	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	2540C - Total Dissolved Solids	8151A_MS - Standard Reporting List					Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	D	S	S	A	N	N						
0416-95	4/28/16	1320	G	Water	N	N							X							3	
0416-98	"	1423	"	Water	"	"							X							"	
0416-96	"	1514	"	Water	"	"							X							"	
0416-08	"	1615	"	Water	Y	"	X	X	X	X	X	X	X	X						12	
0416-09	"	1742	"	Water	"	"	"	"	"	"	"	"	"	"						"	
0416-25	"	1859	"	Water	"	"	"	"	"	"	"	"	"	"						"	
Trip blank	—	—	—	Water	N	"														13	← approximate.
				Water																	
				Water																	

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
Sam Graber	4/29/16 1230	SCS	TASeq	4/29/16 1305	TASeq
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TB ___ Cooler IR2 Cor 5.0 Unc 5.1
Cooler Dsc lg red @Lab 1605
Wet/Packs Packing bubble
cover nocs

TB ___ Cooler IR2 Cor 5.6 Unc 5.7
Cooler Dsc lg blu @Lab 1603
Wet/Packs Packing bubble
cover nocs

TB ___ Cooler IR2 Cor 5.8 Unc 5.7
Cooler Dsc lg blu @Lab 1603
Wet/Packs Packing bubble
cover nocs

TB ___ Cooler IR2 Cor 4.7 Unc 4.8
Cooler Dsc lg grn blu @Lab 1605
Wet/Packs Packing bubble
cover nocs

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-38134.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah murphy@testamericainc com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc				Job #: 580-59194-1
Address: 880 Riverside Parkway,	Due Date Requested: 5/11/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	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)	353.2/ Nitrate Nitrite Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
0416-06 (580-59194-1)	4/27/16	09.45 Pacific		Water		X	1	
0416-07 (580-59194-2)	4/27/16	11.16 Pacific		Water		X	1	
0416-28 (580-59194-3)	4/27/16	13:00 Pacific		Water		X	1	
0416-27 (580-59194-4)	4/27/16	13:50 Pacific		Water		X	1	
0416-05 (580-59194-5)	4/27/16	15 05 Pacific		Water		X	1	
0416-26 (580-59194-7)	4/27/16	17:08 Pacific		Water		X	1	
0416-29 (580-59194-8)	4/27/16	18 10 Pacific		Water		X	1	
0416-18 (580-59194-9)	4/28/16	09.06 Pacific		Water		X	1	
0416-17 (580-59194-10)	4/28/16	10 40 Pacific		Water		X	1	
0416-12 (580-59194-11)	4/28/16	12.05 Pacific		Water		X	1	
0416-08 (580-59194-15)	4/28/16	16.15 Pacific		Water		X	1	

Possible Hazard Identification
Unconfirmed

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
Tom Blankenship	5/3/16	TA-Sea		05/04/16 0940	TAKLS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

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5/11/2016

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Murphy, Sarah A	Carrier Tracking No(s)	COC No.: 580-38134 2
Client Contact: Shipping/Receiving	Phone	E-Mail: sarah.murphy@testamericainc com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 580-59194-1
Address: 880 Riverside Parkway,	Due Date Requested: 5/11/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site	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 - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other.

Sample Identification - Client ID (Lab ID)	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)	353.2/ Nitrate Nitrite Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:					
0416-09 (580-59194-16)	4/28/16	17:42 Pacific		Water		X	1	
0416-25 (580-59194-17)	4/28/16	18:59 Pacific		Water		X	1	

Possible Hazard Identification
Unconfirmed

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: Tom P Lamkin	Date/Time: 5/3/16	Company: TA-Sea	Received by: [signature] Date/Time: 05/04/16 0940 Company: TRWS
Relinquished by	Date/Time	Company	Received by Date/Time: 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: 1.1

5/17/2016

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-59194-1

Login Number: 59194
List Number: 1
Creator: Gall, Brandon A

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-59194-1

Login Number: 59194
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 05/04/16 11:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 3Q 2016

Project Details

Project No.	04207033.09	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Adlington	**Data Level**	Level II
Date	10/04/2016	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-61281-1	Samples were received within holding times but above temperature control levels.	Test America
580-61335-1	Samples arrived in good condition.	Test America
16-17931	Samples arrived in good condition.	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-61281-1	X	X	X	X	X	X	-
580-61335-1	X	X	X	X	X	X	X
16-17931	-	-	X	-	-	-	-

X = Analysis performed on at least one sample in sample group.

- = Analysis not performed on any sample in sample group.

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-61281-1, 580-61335-1, 16-17931)
LCS/LCSD	Acceptable	See case narrative (580-61281-1, 580-61335-1, 16-17931)
Duplicates	Acceptable	See case narrative (580-61281-1, 580-61335-1, 16-17931)
MS/MSD	Acceptable	See case narrative (580-61281-1, 580-61335-1, 16-17931)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.
Trip Blank	580-61335-1	None.	No detections.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S (0716-19)**	**C1S (0716-31)**	**RPD (%)**	**N3D (0716-20)**	**N3D (0716-32)**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.76	0.72	5.4%	ND	ND	0.0%
Alkalinity	mg/L	530	530	0.0%	250	260	3.9%
Arsenic	mg/L	0.0035	0.0033	5.9%	0.0095	0.0093	2.1%
Barium	mg/L	0.058	0.055	5.3%	0.027	0.025	7.7%
Bicarbonate Alkalinity as CaCO3	mg/L	530	530	0.0%	250	260	3.9%
Calcium	mg/L	200	190	5.1%	63	69	9.1%

Duplicate Evaluation							
Analyte	**Units**	**C1S (0716-19)**	**C1S (0716-31)**	**RPD (%)**	**N3D (0716-20)**	**N3D (0716-32)**	**RPD (%)**
Chemical Oxygen Demand	mg/L	17	17	0.0%	ND	ND	0.0%
Chloride	mg/L	8.8	8	9.5%	36	37	2.7%
Chromium	mg/L	0.01	0.0098	2.0%	0.0004 U	0.00046	14.0%
cis-1,2-Dichloroethene	ug/L	0.5	0.51	2.0%	ND	ND	0.0%
Copper	mg/L	0.0063	0.0091	**36.4%**	0.0053	0.0043	**20.8%**
Magnesium	mg/L	80	78	2.5%	24	26	8.0%
Manganese	mg/L	ND	ND	0.0%	0.028	0.029	3.5%
Nickel	mg/L	0.0099	0.0096	3.1%	ND	ND	0.0%
Nitrate Nitrite as N	mg/L	8.5	8.6	1.2%	ND	ND	0.0%
Potassium	mg/L	6.5	6.3	3.1%	5.5	6	8.7%
Sodium	mg/L	33	32	3.1%	20	22	9.5%
Sulfate	mg/L	350	860	**84.3%**	23	23	0.0%
Total Dissolved Solids	mg/L	1100	1200	8.7%	380	380	0.0%
Total Organic Carbon	mg/L	9.6	9.6	0.0%	1.5	1 U	**40.0%**
Trichloroethene	ug/L	0.27	0.33	**20.0%**	ND	ND	0.0%
Trichlorofluoromethane	ug/L	5.8	5.5	5.3%	ND	ND	0.0%
Vanadium	mg/L	0.0055	0.0048	13.6%	ND	ND	0.0%

U = Reporting limit used in place of a non-detection for the given parameter to allow for calculation.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
X	Surrogate outside control limits	580-61355-1
*	RPD of the LCS and LCSD exceed the control limits	580-61281-1, 580-61335-1
H	Same was prepared or analyzed beyond the specified holding time(s)	580-61335-1
E	Results exceeded calibration range.	580-61335-1
F1	MS and/or MSD Recovery is outside acceptance limits.	580-61281-1, 580-61335-1
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because absolute difference is less than the RL.	580-61335-1
4	MS,MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable	580-61335-1

Qualified Data and Usability

Sample analyses with elevated RPDs from the duplicate analysis (greater than 20 percent) are samples collected for unfiltered metals where variation in particulates may impact reproducibility across samples or samples where the target analyte was detected at concentrations less than 5 times the Practical Quantification Limit.

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-61281-1
Client Project/Site: Coupeville Solid Waste Facility

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
8/9/2016 3:22:22 PM

Sarah Murphy, Project Manager I
(253)922-2310
sarah.murphy@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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Case Narrative

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Job ID: 580-61281-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 7/26/2016 3:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 7.1° C and 7.1° C.

Receipt Exceptions
The following samples was received at the laboratory outside the required temperature criteria: 0716-07 (580-61281-1), 0716-06 (580-61281-2), 0716-04 (580-61281-3), 0716-03 (580-61281-4), 0716-02 (580-61281-5), 0716-24 (580-61281-6), 0716-30 (580-61281-7), 0716-13 (580-61281-8) and Trip Blank (580-61281-9). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-223363 recovered outside acceptance criteria, low biased, for Acetone, Acrylonitrile, trans-1,4-Dichloro-2-butene and 1,1-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. 0716-07 (580-61281-1), 0716-06 (580-61281-2), 0716-04 (580-61281-3), 0716-03 (580-61281-4), 0716-02 (580-61281-5), 0716-24 (580-61281-6), 0716-30 (580-61281-7), 0716-13 (580-61281-8), Trip Blank (580-61281-9), (CCVIS 580-223363/3) and (CCVL 580-223363/4)

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-223363 recovered outside control limits for the following analytes: 2-Butanone. 0716-07 (580-61281-1), 0716-06 (580-61281-2), 0716-04 (580-61281-3), 0716-03 (580-61281-4), 0716-02 (580-61281-5), 0716-24 (580-61281-6), 0716-30 (580-61281-7), 0716-13 (580-61281-8), Trip Blank (580-61281-9), (LCS 580-223363/6) and (LCSD 580-223363/7)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client Sample ID: 0716-07
Date Collected: 07/25/16 10:54
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/27/16 23:53	1
Vinyl chloride	ND		0.020		ug/L			07/27/16 23:53	1
Bromomethane	ND		1.0		ug/L			07/27/16 23:53	1
Chloroethane	ND		0.50		ug/L			07/27/16 23:53	1
Trichlorofluoromethane	ND		0.50		ug/L			07/27/16 23:53	1
1,1-Dichloroethene	ND		0.10		ug/L			07/27/16 23:53	1
Methyl iodide	ND		0.50		ug/L			07/27/16 23:53	1
Carbon disulfide	ND		0.20		ug/L			07/27/16 23:53	1
Acetone	ND		2.0		ug/L			07/27/16 23:53	1
Methylene Chloride	ND		0.50		ug/L			07/27/16 23:53	1
Acrylonitrile	ND		5.0		ug/L			07/27/16 23:53	1
Vinyl acetate	ND		1.0		ug/L			07/27/16 23:53	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/27/16 23:53	1
1,1-Dichloroethane	ND		0.20		ug/L			07/27/16 23:53	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/27/16 23:53	1
2-Butanone	ND	*	15		ug/L			07/27/16 23:53	1
Bromochloromethane	ND		0.20		ug/L			07/27/16 23:53	1
Chloroform	ND		0.20		ug/L			07/27/16 23:53	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/27/16 23:53	1
Carbon tetrachloride	ND		0.20		ug/L			07/27/16 23:53	1
Benzene	ND		0.20		ug/L			07/27/16 23:53	1
1,2-Dichloroethane	ND		0.20		ug/L			07/27/16 23:53	1
Trichloroethene	ND		0.20		ug/L			07/27/16 23:53	1
1,2-Dichloropropane	ND		0.20		ug/L			07/27/16 23:53	1
Dibromomethane	ND		0.20		ug/L			07/27/16 23:53	1
Bromodichloromethane	ND		0.20		ug/L			07/27/16 23:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/27/16 23:53	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/27/16 23:53	1
Toluene	ND		0.20		ug/L			07/27/16 23:53	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/27/16 23:53	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/27/16 23:53	1
Tetrachloroethene	ND		0.50		ug/L			07/27/16 23:53	1
2-Hexanone	ND		2.0		ug/L			07/27/16 23:53	1
Dibromochloromethane	ND		0.20		ug/L			07/27/16 23:53	1
1,2-Dibromoethane	ND		0.10		ug/L			07/27/16 23:53	1
Chlorobenzene	ND		0.20		ug/L			07/27/16 23:53	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/27/16 23:53	1
Ethylbenzene	ND		0.20		ug/L			07/27/16 23:53	1
m,p-Xylene	ND		0.50		ug/L			07/27/16 23:53	1
o-Xylene	ND		0.50		ug/L			07/27/16 23:53	1
Styrene	ND		0.50		ug/L			07/27/16 23:53	1
Bromoform	ND		0.50		ug/L			07/27/16 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/27/16 23:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/27/16 23:53	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/27/16 23:53	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/27/16 23:53	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/27/16 23:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/27/16 23:53	1

Client Sample ID: 0716-07
Date Collected: 07/25/16 10:54
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*75 - 125*		*07/27/16 23:53*	*1*
Trifluorotoluene (Surr)	*114*		*74 - 118*		*07/27/16 23:53*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*07/27/16 23:53*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*07/27/16 23:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*46 - 150*		*07/27/16 23:53*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**57**		1.1		mg/L		08/01/16 14:32	08/02/16 15:56	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 15:56	1
Magnesium	**32**		1.1		mg/L		08/01/16 14:32	08/02/16 15:56	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 15:56	1
Potassium	**6.4**		3.3		mg/L		08/01/16 14:32	08/02/16 15:56	1
Sodium	**24**		2.0		mg/L		08/01/16 14:32	08/03/16 09:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Arsenic	**0.0090**		0.0010		mg/L		08/01/16 14:32	08/02/16 23:25	1
Barium	**0.022**		0.0012		mg/L		08/01/16 14:32	08/02/16 23:25	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Chromium	**0.00067**		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Copper	**0.0028**		0.0020		mg/L		08/01/16 14:32	08/02/16 23:25	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/02/16 23:25	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/02/16 23:25	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/02/16 23:25	1
Vanadium	ND		0.0040		mg/L		08/01/16 14:32	08/02/16 23:25	1
Zinc	ND		0.0070		mg/L		08/01/16 14:32	08/02/16 23:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 11:21	1
Chloride	**40**		0.90		mg/L			08/04/16 11:21	1
Sulfate	**37**		1.2		mg/L			08/04/16 11:21	1
Ammonia	ND	F1	0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	**0.093**		0.050		mg/L			07/28/16 13:48	1
Total Organic Carbon	**1.5**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**280**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**280**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**390**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client Sample ID: 0716-06
Date Collected: 07/25/16 12:10
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 00:19	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 00:19	1
Bromomethane	ND		1.0		ug/L			07/28/16 00:19	1
Chloroethane	ND		0.50		ug/L			07/28/16 00:19	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 00:19	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 00:19	1
Methyl iodide	ND		0.50		ug/L			07/28/16 00:19	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 00:19	1
Acetone	ND		2.0		ug/L			07/28/16 00:19	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 00:19	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 00:19	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 00:19	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 00:19	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 00:19	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 00:19	1
2-Butanone	ND	*	15		ug/L			07/28/16 00:19	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 00:19	1
Chloroform	ND		0.20		ug/L			07/28/16 00:19	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 00:19	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 00:19	1
Benzene	ND		0.20		ug/L			07/28/16 00:19	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 00:19	1
Trichloroethene	ND		0.20		ug/L			07/28/16 00:19	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 00:19	1
Dibromomethane	ND		0.20		ug/L			07/28/16 00:19	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 00:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 00:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 00:19	1
Toluene	ND		0.20		ug/L			07/28/16 00:19	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 00:19	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 00:19	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 00:19	1
2-Hexanone	ND		2.0		ug/L			07/28/16 00:19	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 00:19	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 00:19	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 00:19	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 00:19	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 00:19	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 00:19	1
o-Xylene	ND		0.50		ug/L			07/28/16 00:19	1
Styrene	ND		0.50		ug/L			07/28/16 00:19	1
Bromoform	ND		0.50		ug/L			07/28/16 00:19	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 00:19	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 00:19	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 00:19	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 00:19	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 00:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 00:19	1

Client Sample ID: 0716-06
Date Collected: 07/25/16 12:10
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*75 - 125*		*07/28/16 00:19*	*1*
Trifluorotoluene (Surr)	*107*		*74 - 118*		*07/28/16 00:19*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*07/28/16 00:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*07/28/16 00:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*46 - 150*		*07/28/16 00:19*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**94**		1.1		mg/L		08/01/16 14:32	08/02/16 15:59	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 15:59	1
Magnesium	**31**		1.1		mg/L		08/01/16 14:32	08/02/16 15:59	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 15:59	1
Potassium	**5.7**		3.3		mg/L		08/01/16 14:32	08/02/16 15:59	1
Sodium	**17**		2.0		mg/L		08/01/16 14:32	08/03/16 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Arsenic	**0.0041**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:01	1
Barium	**0.029**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:01	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Chromium	**0.0042**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Copper	**0.0044**		0.0020		mg/L		08/01/16 14:32	08/03/16 00:01	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Nickel	**0.0057**		0.0030		mg/L		08/01/16 14:32	08/03/16 00:01	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:01	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:01	1
Vanadium	**0.0073**		0.0040		mg/L		08/01/16 14:32	08/03/16 00:01	1
Zinc	ND		0.0070		mg/L		08/01/16 14:32	08/03/16 00:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 11:37	1
Chloride	**21**		0.90		mg/L			08/04/16 11:37	1
Sulfate	**67**		1.2		mg/L			08/04/16 11:37	1
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	**5.5**		0.50		mg/L			07/28/16 15:46	10
Total Organic Carbon	**1.5**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**510**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-04
Date Collected: 07/25/16 13:33
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 00:46	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 00:46	1
Bromomethane	ND		1.0		ug/L			07/28/16 00:46	1
Chloroethane	ND		0.50		ug/L			07/28/16 00:46	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 00:46	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 00:46	1
Methyl iodide	ND		0.50		ug/L			07/28/16 00:46	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 00:46	1
Acetone	ND		2.0		ug/L			07/28/16 00:46	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 00:46	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 00:46	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 00:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 00:46	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 00:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 00:46	1
2-Butanone	ND	*	15		ug/L			07/28/16 00:46	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 00:46	1
Chloroform	ND		0.20		ug/L			07/28/16 00:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 00:46	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 00:46	1
Benzene	ND		0.20		ug/L			07/28/16 00:46	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 00:46	1
Trichloroethene	ND		0.20		ug/L			07/28/16 00:46	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 00:46	1
Dibromomethane	ND		0.20		ug/L			07/28/16 00:46	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 00:46	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 00:46	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 00:46	1
Toluene	ND		0.20		ug/L			07/28/16 00:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 00:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 00:46	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 00:46	1
2-Hexanone	ND		2.0		ug/L			07/28/16 00:46	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 00:46	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 00:46	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 00:46	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 00:46	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 00:46	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 00:46	1
o-Xylene	ND		0.50		ug/L			07/28/16 00:46	1
Styrene	ND		0.50		ug/L			07/28/16 00:46	1
Bromoform	ND		0.50		ug/L			07/28/16 00:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 00:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 00:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 00:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 00:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 00:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 00:46	1

Client Sample ID: 0716-04
Date Collected: 07/25/16 13:33
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*75 - 125*		*07/28/16 00:46*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*07/28/16 00:46*	*1*
Dibromofluoromethane (Surr)	*97*		*42 - 132*		*07/28/16 00:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*07/28/16 00:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*46 - 150*		*07/28/16 00:46*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**33**		1.1		mg/L		08/01/16 14:32	08/02/16 16:03	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 16:03	1
Magnesium	**24**		1.1		mg/L		08/01/16 14:32	08/02/16 16:03	1
Manganese	**0.053**		0.020		mg/L		08/01/16 14:32	08/02/16 16:03	1
Potassium	**11**		3.3		mg/L		08/01/16 14:32	08/02/16 16:03	1
Sodium	**37**		2.0		mg/L		08/01/16 14:32	08/03/16 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Arsenic	**0.016**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:06	1
Barium	**0.030**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:06	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Chromium	**0.00050**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Copper	ND		0.0020		mg/L		08/01/16 14:32	08/03/16 00:06	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/03/16 00:06	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:06	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:06	1
Vanadium	ND		0.0040		mg/L		08/01/16 14:32	08/03/16 00:06	1
Zinc	ND		0.0070		mg/L		08/01/16 14:32	08/03/16 00:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.24**		0.20		mg/L			08/04/16 11:52	1
Chloride	**35**		0.90		mg/L			08/04/16 11:52	1
Sulfate	**13**		1.2		mg/L			08/04/16 11:52	1
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	ND		0.050		mg/L			07/28/16 15:48	1
Total Organic Carbon	**4.1**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**230**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**230**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**320**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-03
Date Collected: 07/25/16 14:30
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 01:12	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 01:12	1
Bromomethane	ND		1.0		ug/L			07/28/16 01:12	1
Chloroethane	ND		0.50		ug/L			07/28/16 01:12	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 01:12	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 01:12	1
Methyl iodide	ND		0.50		ug/L			07/28/16 01:12	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 01:12	1
Acetone	ND		2.0		ug/L			07/28/16 01:12	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 01:12	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 01:12	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 01:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 01:12	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 01:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 01:12	1
2-Butanone	ND	*	15		ug/L			07/28/16 01:12	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 01:12	1
Chloroform	ND		0.20		ug/L			07/28/16 01:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 01:12	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 01:12	1
Benzene	ND		0.20		ug/L			07/28/16 01:12	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 01:12	1
Trichloroethene	ND		0.20		ug/L			07/28/16 01:12	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 01:12	1
Dibromomethane	ND		0.20		ug/L			07/28/16 01:12	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 01:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 01:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 01:12	1
Toluene	ND		0.20		ug/L			07/28/16 01:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 01:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 01:12	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 01:12	1
2-Hexanone	ND		2.0		ug/L			07/28/16 01:12	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 01:12	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 01:12	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 01:12	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 01:12	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 01:12	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 01:12	1
o-Xylene	ND		0.50		ug/L			07/28/16 01:12	1
Styrene	ND		0.50		ug/L			07/28/16 01:12	1
Bromoform	ND		0.50		ug/L			07/28/16 01:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 01:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 01:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 01:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 01:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 01:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 01:12	1

Client Sample ID: 0716-03
Date Collected: 07/25/16 14:30
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*75 - 125*		*07/28/16 01:12*	*1*
Trifluorotoluene (Surr)	*115*		*74 - 118*		*07/28/16 01:12*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*07/28/16 01:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*07/28/16 01:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*46 - 150*		*07/28/16 01:12*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		08/01/16 14:32	08/02/16 16:06	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 16:06	1
Magnesium	**51**		1.1		mg/L		08/01/16 14:32	08/02/16 16:06	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 16:06	1
Potassium	**6.8**		3.3		mg/L		08/01/16 14:32	08/02/16 16:06	1
Sodium	**30**		2.0		mg/L		08/01/16 14:32	08/03/16 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Arsenic	**0.0040**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:10	1
Barium	**0.045**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:10	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Chromium	**0.0060**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Copper	ND		0.0020		mg/L		08/01/16 14:32	08/03/16 00:10	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/03/16 00:10	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:10	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:10	1
Vanadium	**0.0075**		0.0040		mg/L		08/01/16 14:32	08/03/16 00:10	1
Zinc	**0.028**		0.0070		mg/L		08/01/16 14:32	08/03/16 00:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 12:08	1
Chloride	**54**		0.90		mg/L			08/04/16 12:08	1
Sulfate	**45**		1.2		mg/L			08/04/16 12:08	1
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	**0.71**		0.050		mg/L			07/28/16 13:52	1
Total Organic Carbon	**1.5**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**520**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**520**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**670**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client Sample ID: 0716-02
Date Collected: 07/25/16 15:38
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 01:38	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 01:38	1
Bromomethane	ND		1.0		ug/L			07/28/16 01:38	1
Chloroethane	ND		0.50		ug/L			07/28/16 01:38	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 01:38	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 01:38	1
Methyl iodide	ND		0.50		ug/L			07/28/16 01:38	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 01:38	1
Acetone	ND		2.0		ug/L			07/28/16 01:38	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 01:38	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 01:38	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 01:38	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 01:38	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 01:38	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 01:38	1
2-Butanone	ND	*	15		ug/L			07/28/16 01:38	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 01:38	1
Chloroform	ND		0.20		ug/L			07/28/16 01:38	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 01:38	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 01:38	1
Benzene	ND		0.20		ug/L			07/28/16 01:38	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 01:38	1
Trichloroethene	ND		0.20		ug/L			07/28/16 01:38	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 01:38	1
Dibromomethane	ND		0.20		ug/L			07/28/16 01:38	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 01:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 01:38	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 01:38	1
Toluene	ND		0.20		ug/L			07/28/16 01:38	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 01:38	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 01:38	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 01:38	1
2-Hexanone	ND		2.0		ug/L			07/28/16 01:38	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 01:38	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 01:38	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 01:38	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 01:38	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 01:38	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 01:38	1
o-Xylene	ND		0.50		ug/L			07/28/16 01:38	1
Styrene	ND		0.50		ug/L			07/28/16 01:38	1
Bromoform	ND		0.50		ug/L			07/28/16 01:38	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 01:38	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 01:38	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 01:38	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 01:38	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 01:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 01:38	1

Client Sample ID: 0716-02
Date Collected: 07/25/16 15:38
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*75 - 125*		*07/28/16 01:38*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*07/28/16 01:38*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*07/28/16 01:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*07/28/16 01:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*46 - 150*		*07/28/16 01:38*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64**		1.1		mg/L		08/01/16 14:32	08/02/16 16:09	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 16:09	1
Magnesium	**40**		1.1		mg/L		08/01/16 14:32	08/02/16 16:09	1
Manganese	**0.076**		0.020		mg/L		08/01/16 14:32	08/02/16 16:09	1
Potassium	**7.1**		3.3		mg/L		08/01/16 14:32	08/02/16 16:09	1
Sodium	**26**		2.0		mg/L		08/01/16 14:32	08/03/16 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Arsenic	**0.0075**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:14	1
Barium	**0.027**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:14	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Chromium	**0.00045**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Copper	ND		0.0020		mg/L		08/01/16 14:32	08/03/16 00:14	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/03/16 00:14	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:14	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:14	1
Vanadium	ND		0.0040		mg/L		08/01/16 14:32	08/03/16 00:14	1
Zinc	ND		0.0070		mg/L		08/01/16 14:32	08/03/16 00:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 12:23	1
Chloride	**39**		0.90		mg/L			08/04/16 12:23	1
Sulfate	**16**		1.2		mg/L			08/04/16 12:23	1
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	ND		0.050		mg/L			07/28/16 13:53	1
Total Organic Carbon	**1.5**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**450**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-24
Date Collected: 07/25/16 16:45
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 02:05	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 02:05	1
Bromomethane	ND		1.0		ug/L			07/28/16 02:05	1
Chloroethane	ND		0.50		ug/L			07/28/16 02:05	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 02:05	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 02:05	1
Methyl iodide	ND		0.50		ug/L			07/28/16 02:05	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 02:05	1
Acetone	ND		2.0		ug/L			07/28/16 02:05	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 02:05	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 02:05	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 02:05	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 02:05	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 02:05	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 02:05	1
2-Butanone	ND	*	15		ug/L			07/28/16 02:05	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 02:05	1
Chloroform	ND		0.20		ug/L			07/28/16 02:05	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 02:05	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 02:05	1
Benzene	ND		0.20		ug/L			07/28/16 02:05	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 02:05	1
Trichloroethene	ND		0.20		ug/L			07/28/16 02:05	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 02:05	1
Dibromomethane	ND		0.20		ug/L			07/28/16 02:05	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 02:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 02:05	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 02:05	1
Toluene	ND		0.20		ug/L			07/28/16 02:05	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 02:05	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 02:05	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 02:05	1
2-Hexanone	ND		2.0		ug/L			07/28/16 02:05	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 02:05	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 02:05	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 02:05	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 02:05	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 02:05	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 02:05	1
o-Xylene	ND		0.50		ug/L			07/28/16 02:05	1
Styrene	ND		0.50		ug/L			07/28/16 02:05	1
Bromoform	ND		0.50		ug/L			07/28/16 02:05	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 02:05	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 02:05	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 02:05	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 02:05	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 02:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 02:05	1

Client Sample ID: 0716-24

Date Collected: 07/25/16 16:45
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*75 - 125*		*07/28/16 02:05*	*1*
Trifluorotoluene (Surr)	*116*		*74 - 118*		*07/28/16 02:05*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*07/28/16 02:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*07/28/16 02:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*46 - 150*		*07/28/16 02:05*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**37**		1.1		mg/L		08/01/16 14:32	08/02/16 16:13	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 16:13	1
Magnesium	**52**		1.1		mg/L		08/01/16 14:32	08/02/16 16:13	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 16:13	1
Potassium	**11**		3.3		mg/L		08/01/16 14:32	08/02/16 16:13	1
Sodium	**28**		2.0		mg/L		08/01/16 14:32	08/03/16 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Arsenic	**0.0069**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:19	1
Barium	**0.041**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:19	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Chromium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Copper	**0.0075**		0.0020		mg/L		08/01/16 14:32	08/03/16 00:19	1
Lead	**0.0035**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/03/16 00:19	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:19	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:19	1
Vanadium	ND		0.0040		mg/L		08/01/16 14:32	08/03/16 00:19	1
Zinc	**0.24**		0.0070		mg/L		08/01/16 14:32	08/03/16 00:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 12:39	1
Chloride	**47**		0.90		mg/L			08/04/16 12:39	1
Sulfate	**25**		1.2		mg/L			08/04/16 12:39	1
Ammonia	**0.46**		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	**0.27**		0.050		mg/L			07/28/16 13:54	1
Total Organic Carbon	**2.1**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**400**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-30
Date Collected: 07/25/16 17:27
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 02:31	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 02:31	1
Bromomethane	ND		1.0		ug/L			07/28/16 02:31	1
Chloroethane	ND		0.50		ug/L			07/28/16 02:31	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 02:31	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 02:31	1
Methyl iodide	ND		0.50		ug/L			07/28/16 02:31	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 02:31	1
Acetone	ND		2.0		ug/L			07/28/16 02:31	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 02:31	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 02:31	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 02:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 02:31	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 02:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 02:31	1
2-Butanone	ND	*	15		ug/L			07/28/16 02:31	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 02:31	1
Chloroform	ND		0.20		ug/L			07/28/16 02:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 02:31	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 02:31	1
Benzene	ND		0.20		ug/L			07/28/16 02:31	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 02:31	1
Trichloroethene	ND		0.20		ug/L			07/28/16 02:31	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 02:31	1
Dibromomethane	ND		0.20		ug/L			07/28/16 02:31	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 02:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 02:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 02:31	1
Toluene	ND		0.20		ug/L			07/28/16 02:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 02:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 02:31	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 02:31	1
2-Hexanone	ND		2.0		ug/L			07/28/16 02:31	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 02:31	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 02:31	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 02:31	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 02:31	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 02:31	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 02:31	1
o-Xylene	ND		0.50		ug/L			07/28/16 02:31	1
Styrene	ND		0.50		ug/L			07/28/16 02:31	1
Bromoform	ND		0.50		ug/L			07/28/16 02:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 02:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 02:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 02:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 02:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 02:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 02:31	1

Client Sample ID: 0716-30

Date Collected: 07/25/16 17:27
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*75 - 125*		*07/28/16 02:31*	*1*
Trifluorotoluene (Surr)	*116*		*74 - 118*		*07/28/16 02:31*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*07/28/16 02:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*07/28/16 02:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*46 - 150*		*07/28/16 02:31*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**72**		1.1		mg/L		08/01/16 14:32	08/02/16 16:16	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 16:16	1
Magnesium	**41**		1.1		mg/L		08/01/16 14:32	08/02/16 16:16	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 16:16	1
Potassium	**5.6**		3.3		mg/L		08/01/16 14:32	08/02/16 16:16	1
Sodium	**30**		2.0		mg/L		08/01/16 14:32	08/03/16 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Arsenic	**0.0044**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:23	1
Barium	**0.022**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:23	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Chromium	**0.0015**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Copper	**0.048**		0.0020		mg/L		08/01/16 14:32	08/03/16 00:23	1
Lead	**0.00050**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/03/16 00:23	1
Selenium	**0.0011**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:23	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:23	1
Vanadium	**0.0040**		0.0040		mg/L		08/01/16 14:32	08/03/16 00:23	1
Zinc	**0.098**		0.0070		mg/L		08/01/16 14:32	08/03/16 00:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 12:54	1
Chloride	**62**		0.90		mg/L			08/04/16 12:54	1
Sulfate	**44**		1.2		mg/L			08/04/16 12:54	1
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	**1.4**		0.050		mg/L			07/28/16 13:55	1
Total Organic Carbon	**2.1**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**500**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-13
Date Collected: 07/25/16 18:20
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/28/16 02:57	1
Vinyl chloride	ND		0.020		ug/L			07/28/16 02:57	1
Bromomethane	ND		1.0		ug/L			07/28/16 02:57	1
Chloroethane	ND		0.50		ug/L			07/28/16 02:57	1
Trichlorofluoromethane	ND		0.50		ug/L			07/28/16 02:57	1
1,1-Dichloroethene	ND		0.10		ug/L			07/28/16 02:57	1
Methyl iodide	ND		0.50		ug/L			07/28/16 02:57	1
Carbon disulfide	ND		0.20		ug/L			07/28/16 02:57	1
Acetone	ND		2.0		ug/L			07/28/16 02:57	1
Methylene Chloride	ND		0.50		ug/L			07/28/16 02:57	1
Acrylonitrile	ND		5.0		ug/L			07/28/16 02:57	1
Vinyl acetate	ND		1.0		ug/L			07/28/16 02:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 02:57	1
1,1-Dichloroethane	ND		0.20		ug/L			07/28/16 02:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/28/16 02:57	1
2-Butanone	ND	*	15		ug/L			07/28/16 02:57	1
Bromochloromethane	ND		0.20		ug/L			07/28/16 02:57	1
Chloroform	ND		0.20		ug/L			07/28/16 02:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/28/16 02:57	1
Carbon tetrachloride	ND		0.20		ug/L			07/28/16 02:57	1
Benzene	ND		0.20		ug/L			07/28/16 02:57	1
1,2-Dichloroethane	ND		0.20		ug/L			07/28/16 02:57	1
Trichloroethene	ND		0.20		ug/L			07/28/16 02:57	1
1,2-Dichloropropane	ND		0.20		ug/L			07/28/16 02:57	1
Dibromomethane	ND		0.20		ug/L			07/28/16 02:57	1
Bromodichloromethane	ND		0.20		ug/L			07/28/16 02:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/28/16 02:57	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/28/16 02:57	1
Toluene	ND		0.20		ug/L			07/28/16 02:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/28/16 02:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/28/16 02:57	1
Tetrachloroethene	ND		0.50		ug/L			07/28/16 02:57	1
2-Hexanone	ND		2.0		ug/L			07/28/16 02:57	1
Dibromochloromethane	ND		0.20		ug/L			07/28/16 02:57	1
1,2-Dibromoethane	ND		0.10		ug/L			07/28/16 02:57	1
Chlorobenzene	ND		0.20		ug/L			07/28/16 02:57	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 02:57	1
Ethylbenzene	ND		0.20		ug/L			07/28/16 02:57	1
m,p-Xylene	ND		0.50		ug/L			07/28/16 02:57	1
o-Xylene	ND		0.50		ug/L			07/28/16 02:57	1
Styrene	ND		0.50		ug/L			07/28/16 02:57	1
Bromoform	ND		0.50		ug/L			07/28/16 02:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/28/16 02:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/28/16 02:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/28/16 02:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/28/16 02:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/28/16 02:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/28/16 02:57	1

Client Sample ID: 0716-13
Date Collected: 07/25/16 18:20
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*75 - 125*		*07/28/16 02:57*	*1*
Trifluorotoluene (Surr)	*109*		*74 - 118*		*07/28/16 02:57*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*07/28/16 02:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*07/28/16 02:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*46 - 150*		*07/28/16 02:57*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**85**		1.1		mg/L		08/01/16 14:32	08/02/16 16:19	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 16:19	1
Magnesium	**47**		1.1		mg/L		08/01/16 14:32	08/02/16 16:19	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 16:19	1
Potassium	**4.6**		3.3		mg/L		08/01/16 14:32	08/02/16 16:19	1
Sodium	**37**		2.0		mg/L		08/01/16 14:32	08/03/16 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Arsenic	**0.0030**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:28	1
Barium	**0.026**		0.0012		mg/L		08/01/16 14:32	08/03/16 00:28	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Chromium	**0.0023**		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Copper	ND		0.0020		mg/L		08/01/16 14:32	08/03/16 00:28	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/03/16 00:28	1
Selenium	**0.0013**		0.0010		mg/L		08/01/16 14:32	08/03/16 00:28	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/03/16 00:28	1
Vanadium	**0.0049**		0.0040		mg/L		08/01/16 14:32	08/03/16 00:28	1
Zinc	ND		0.0070		mg/L		08/01/16 14:32	08/03/16 00:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 13:09	1
Chloride	**52**		0.90		mg/L			08/04/16 13:09	1
Sulfate	**57**		1.2		mg/L			08/04/16 13:09	1
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1
Nitrate Nitrite as N	**3.7**		0.50		mg/L			07/28/16 15:49	10
Total Organic Carbon	**2.4**		1.0		mg/L			08/01/16 11:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			07/28/16 13:05	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			07/28/16 13:05	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/16 13:05	1
Total Dissolved Solids	**560**		10		mg/L			07/28/16 16:40	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-223363/5
Matrix: Water
Analysis Batch: 223363

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/27/16 19:58	1
Vinyl chloride	ND		0.020		ug/L			07/27/16 19:58	1
Bromomethane	ND		1.0		ug/L			07/27/16 19:58	1
Chloroethane	ND		0.50		ug/L			07/27/16 19:58	1
Trichlorofluoromethane	ND		0.50		ug/L			07/27/16 19:58	1
1,1-Dichloroethene	ND		0.10		ug/L			07/27/16 19:58	1
Methyl iodide	ND		0.50		ug/L			07/27/16 19:58	1
Carbon disulfide	ND		0.20		ug/L			07/27/16 19:58	1
Acetone	ND		2.0		ug/L			07/27/16 19:58	1
Methylene Chloride	ND		0.50		ug/L			07/27/16 19:58	1
Acrylonitrile	ND		5.0		ug/L			07/27/16 19:58	1
Vinyl acetate	ND		1.0		ug/L			07/27/16 19:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/27/16 19:58	1
1,1-Dichloroethane	ND		0.20		ug/L			07/27/16 19:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/27/16 19:58	1
2-Butanone	ND		15		ug/L			07/27/16 19:58	1
Bromochloromethane	ND		0.20		ug/L			07/27/16 19:58	1
Chloroform	ND		0.20		ug/L			07/27/16 19:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/27/16 19:58	1
Carbon tetrachloride	ND		0.20		ug/L			07/27/16 19:58	1
Benzene	ND		0.20		ug/L			07/27/16 19:58	1
1,2-Dichloroethane	ND		0.20		ug/L			07/27/16 19:58	1
Trichloroethene	ND		0.20		ug/L			07/27/16 19:58	1
1,2-Dichloropropane	ND		0.20		ug/L			07/27/16 19:58	1
Dibromomethane	ND		0.20		ug/L			07/27/16 19:58	1
Bromodichloromethane	ND		0.20		ug/L			07/27/16 19:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/27/16 19:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/27/16 19:58	1
Toluene	ND		0.20		ug/L			07/27/16 19:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/27/16 19:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/27/16 19:58	1
Tetrachloroethene	ND		0.50		ug/L			07/27/16 19:58	1
2-Hexanone	ND		2.0		ug/L			07/27/16 19:58	1
Dibromochloromethane	ND		0.20		ug/L			07/27/16 19:58	1
1,2-Dibromoethane	ND		0.10		ug/L			07/27/16 19:58	1
Chlorobenzene	ND		0.20		ug/L			07/27/16 19:58	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/27/16 19:58	1
Ethylbenzene	ND		0.20		ug/L			07/27/16 19:58	1
m,p-Xylene	ND		0.50		ug/L			07/27/16 19:58	1
o-Xylene	ND		0.50		ug/L			07/27/16 19:58	1
Styrene	ND		0.50		ug/L			07/27/16 19:58	1
Bromoform	ND		0.50		ug/L			07/27/16 19:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/27/16 19:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/27/16 19:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/27/16 19:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/27/16 19:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/27/16 19:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/27/16 19:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*108*		*75 - 125*		*07/27/16 19:58*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*07/27/16 19:58*	*1*
Dibromofluoromethane (Surr)	*93*		*42 - 132*		*07/27/16 19:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*07/27/16 19:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*07/27/16 19:58*	*1*

Lab Sample ID: LCS 580-223363/6
Matrix: Water
Analysis Batch: 223363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.04	4.25		ug/L		84	40 - 150
Vinyl chloride	4.99	4.37		ug/L		88	59 - 140
Bromomethane	5.03	4.59		ug/L		91	61 - 135
Chloroethane	5.01	4.58		ug/L		92	58 - 130
Trichlorofluoromethane	5.05	4.98		ug/L		99	60 - 150
1,1-Dichloroethene	5.04	3.96		ug/L		79	64 - 125
Methyl iodide	5.02	4.32		ug/L		86	47 - 145
Carbon disulfide	5.02	4.50		ug/L		90	65 - 128
Acetone	25.0	12.1		ug/L		48	20 - 138
Methylene Chloride	5.02	4.20		ug/L		84	58 - 134
Acrylonitrile	50.0	41.1		ug/L		82	55 - 134
Vinyl acetate	12.5	8.74		ug/L		70	30 - 150
trans-1,2-Dichloroethene	5.01	4.18		ug/L		83	69 - 124
1,1-Dichloroethane	5.00	4.43		ug/L		89	68 - 135
cis-1,2-Dichloroethene	5.01	4.47		ug/L		89	73 - 130
2-Butanone	25.0	16.4		ug/L		66	30 - 150
Bromochloromethane	5.01	4.03		ug/L		80	71 - 131
Chloroform	5.00	4.45		ug/L		89	71 - 130
1,1,1-Trichloroethane	5.02	4.90		ug/L		98	56 - 150
Carbon tetrachloride	5.01	4.85		ug/L		97	54 - 150
Benzene	5.02	4.34		ug/L		87	73 - 120
1,2-Dichloroethane	5.00	4.74		ug/L		95	63 - 150
Trichloroethene	5.01	4.45		ug/L		89	72 - 123
1,2-Dichloropropane	5.00	4.27		ug/L		85	72 - 120
Dibromomethane	5.02	4.16		ug/L		83	65 - 137
Bromodichloromethane	5.02	4.55		ug/L		91	62 - 150
cis-1,3-Dichloropropene	5.01	4.98		ug/L		99	54 - 150
4-Methyl-2-pentanone	25.0	24.7		ug/L		99	36 - 150
Toluene	5.00	5.29		ug/L		106	70 - 126
trans-1,3-Dichloropropene	5.00	5.31		ug/L		106	40 - 150
1,1,2-Trichloroethane	5.02	4.90		ug/L		98	62 - 137
Tetrachloroethene	5.01	5.41		ug/L		108	67 - 123
2-Hexanone	25.0	27.7		ug/L		111	25 - 150
Dibromochloromethane	5.01	5.12		ug/L		102	46 - 150
1,2-Dibromoethane	5.01	4.95		ug/L		99	56 - 146
Chlorobenzene	5.02	5.24		ug/L		104	74 - 114
1,1,1,2-Tetrachloroethane	5.02	5.31		ug/L		106	68 - 139
Ethylbenzene	5.02	5.56		ug/L		111	74 - 125
m,p-Xylene	5.01	5.70		ug/L		114	73 - 130
o-Xylene	5.01	5.94		ug/L		119	80 - 139
Styrene	5.01	4.99		ug/L		100	68 - 136
Bromoform	5.02	4.73		ug/L		94	51 - 137
1,1,2,2-Tetrachloroethane	5.01	5.08		ug/L		101	60 - 134

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-223363/6
Matrix: Water
Analysis Batch: 223363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	5.01	5.13		ug/L		103	45 - 150
trans-1,4-Dichloro-2-butene	5.00	4.13		ug/L		83	20 - 150
1,4-Dichlorobenzene	5.01	5.47		ug/L		109	77 - 120
1,2-Dichlorobenzene	5.00	5.38		ug/L		107	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	4.73		ug/L		94	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*75 - 125*
Trifluorotoluene (Surr)	*112*		*74 - 118*
Dibromofluoromethane (Surr)	*92*		*42 - 132*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*

Lab Sample ID: LCSD 580-223363/7
Matrix: Water
Analysis Batch: 223363

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
Chloromethane	5.04	3.74		ug/L		74	40 - 150	13	31
Vinyl chloride	4.99	4.09		ug/L		82	59 - 140	7	30
Bromomethane	5.03	3.96		ug/L		79	61 - 135	15	31
Chloroethane	5.01	4.08		ug/L		81	58 - 130	12	35
Trichlorofluoromethane	5.05	4.51		ug/L		89	60 - 150	10	31
1,1-Dichloroethene	5.04	3.62		ug/L		72	64 - 125	9	28
Methyl iodide	5.02	3.96		ug/L		79	47 - 145	9	35
Carbon disulfide	5.02	4.02		ug/L		80	65 - 128	11	32
Acetone	25.0	13.3		ug/L		53	20 - 138	9	35
Methylene Chloride	5.02	4.01		ug/L		80	58 - 134	5	29
Acrylonitrile	50.0	41.1		ug/L		82	55 - 134	0	35
Vinyl acetate	12.5	10.1		ug/L		81	30 - 150	14	35
trans-1,2-Dichloroethene	5.01	3.81		ug/L		76	69 - 124	9	27
1,1-Dichloroethane	5.00	4.14		ug/L		83	68 - 135	7	27
cis-1,2-Dichloroethene	5.01	4.10		ug/L		82	73 - 130	9	20
2-Butanone	25.0	24.4	*	ug/L		98	30 - 150	39	35
Bromochloromethane	5.01	3.97		ug/L		79	71 - 131	1	20
Chloroform	5.00	4.31		ug/L		86	71 - 130	3	20
1,1,1-Trichloroethane	5.02	4.45		ug/L		89	56 - 150	10	29
Carbon tetrachloride	5.01	4.39		ug/L		88	54 - 150	10	30
Benzene	5.02	4.31		ug/L		86	73 - 120	1	20
1,2-Dichloroethane	5.00	4.85		ug/L		97	63 - 150	2	29
Trichloroethene	5.01	4.56		ug/L		91	72 - 123	2	20
1,2-Dichloropropane	5.00	4.49		ug/L		90	72 - 120	5	20
Dibromomethane	5.02	4.49		ug/L		89	65 - 137	7	20
Bromodichloromethane	5.02	4.83		ug/L		96	62 - 150	6	20
cis-1,3-Dichloropropene	5.01	5.36		ug/L		107	54 - 150	7	28
4-Methyl-2-pentanone	25.0	26.1		ug/L		104	36 - 150	5	34
Toluene	5.00	5.18		ug/L		103	70 - 126	2	20
trans-1,3-Dichloropropene	5.00	5.73		ug/L		115	40 - 150	8	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-223363/7
Matrix: Water
Analysis Batch: 223363

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
1,1,2-Trichloroethane			5.02	5.28		ug/L		105	62 - 137	8	30
Tetrachloroethene			5.01	5.01		ug/L		100	67 - 123	8	20
2-Hexanone			25.0	33.2		ug/L		133	25 - 150	18	28
Dibromochloromethane			5.01	5.20		ug/L		104	46 - 150	2	20
1,2-Dibromoethane			5.01	5.36		ug/L		107	56 - 146	8	20
Chlorobenzene			5.02	5.28		ug/L		105	74 - 114	1	12
1,1,1,2-Tetrachloroethane			5.02	4.84		ug/L		96	68 - 139	9	20
Ethylbenzene			5.02	5.41		ug/L		108	74 - 125	3	20
m,p-Xylene			5.01	5.49		ug/L		109	73 - 130	4	20
o-Xylene			5.01	5.54		ug/L		111	80 - 139	7	20
Styrene			5.01	5.09		ug/L		102	68 - 136	2	20
Bromoform			5.02	4.75		ug/L		95	51 - 137	0	20
1,1,2,2-Tetrachloroethane			5.01	5.65		ug/L		113	60 - 134	11	25
1,2,3-Trichloropropane			5.01	5.79		ug/L		116	45 - 150	12	20
trans-1,4-Dichloro-2-butene			5.00	4.72		ug/L		94	20 - 150	13	20
1,4-Dichlorobenzene			5.01	5.61		ug/L		112	77 - 120	2	11
1,2-Dichlorobenzene			5.00	5.58		ug/L		111	73 - 120	4	14
1,2-Dibromo-3-Chloropropane			5.01	4.96		ug/L		99	34 - 150	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*75 - 125*
Trifluorotoluene (Surr)	*115*		*74 - 118*
Dibromofluoromethane (Surr)	*88*		*42 - 132*
4-Bromofluorobenzene (Surr)	*95*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-223695/20-A
Matrix: Water
Analysis Batch: 223841

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/01/16 14:32	08/02/16 15:22	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/02/16 15:22	1
Magnesium	ND		1.1		mg/L		08/01/16 14:32	08/02/16 15:22	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/02/16 15:22	1
Potassium	ND		3.3		mg/L		08/01/16 14:32	08/02/16 15:22	1

Lab Sample ID: MB 580-223695/20-A
Matrix: Water
Analysis Batch: 223879

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/01/16 14:32	08/03/16 08:50	1
Iron	ND		0.30		mg/L		08/01/16 14:32	08/03/16 08:50	1
Magnesium	ND		1.1		mg/L		08/01/16 14:32	08/03/16 08:50	1
Manganese	ND		0.020		mg/L		08/01/16 14:32	08/03/16 08:50	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 580-223695/20-A
Matrix: Water
Analysis Batch: 223879

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		3.3		mg/L		08/01/16 14:32	08/03/16 08:50	1
Sodium	ND		2.0		mg/L		08/01/16 14:32	08/03/16 08:50	1

Lab Sample ID: LCS 580-223695/21-A
Matrix: Water
Analysis Batch: 223841

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	19.6		mg/L		98	80 - 120
Iron	22.0	19.9		mg/L		90	80 - 120
Magnesium	20.0	18.8		mg/L		94	80 - 120
Manganese	1.00	0.899		mg/L		90	80 - 120
Potassium	20.0	21.8		mg/L		109	80 - 120

Lab Sample ID: LCS 580-223695/21-A
Matrix: Water
Analysis Batch: 223879

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.3		mg/L		102	80 - 120
Iron	22.0	21.7		mg/L		99	80 - 120
Magnesium	20.0	20.0		mg/L		100	80 - 120
Manganese	1.00	1.01		mg/L		101	80 - 120
Potassium	20.0	20.1		mg/L		101	80 - 120
Sodium	20.0	19.4		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-223695/22-A
Matrix: Water
Analysis Batch: 223841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.2		mg/L		101	80 - 120	3	20
Iron	22.0	20.6		mg/L		93	80 - 120	3	20
Magnesium	20.0	19.6		mg/L		98	80 - 120	4	20
Manganese	1.00	0.920		mg/L		92	80 - 120	2	20
Potassium	20.0	22.3		mg/L		111	80 - 120	2	20

Lab Sample ID: LCSD 580-223695/22-A
Matrix: Water
Analysis Batch: 223879

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.6		mg/L		103	80 - 120	1	20
Iron	22.0	21.9		mg/L		99	80 - 120	1	20
Magnesium	20.0	20.2		mg/L		101	80 - 120	1	20
Manganese	1.00	1.02		mg/L		102	80 - 120	1	20
Potassium	20.0	20.3		mg/L		102	80 - 120	1	20
Sodium	20.0	19.5		mg/L		98	80 - 120	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-61281-E-1-C MS
Matrix: Water
Analysis Batch: 223841

Client Sample ID: 580-61281-E-1-C MS
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	59		20.0	75.9		mg/L		84	75 - 125
Iron	ND		22.0	19.7		mg/L		89	75 - 125
Magnesium	33		20.0	49.7		mg/L		85	75 - 125
Manganese	ND		1.00	0.903		mg/L		88	75 - 125
Potassium	6.8		20.0	28.4		mg/L		108	75 - 125

Lab Sample ID: 580-61281-E-1-C MS
Matrix: Water
Analysis Batch: 223879

Client Sample ID: 580-61281-E-1-C MS
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	61		20.0	80.1		mg/L		95	75 - 125
Iron	ND		22.0	22.1		mg/L		100	75 - 125
Magnesium	35		20.0	53.8		mg/L		96	75 - 125
Manganese	0.022		1.00	1.03		mg/L		101	75 - 125
Potassium	6.2		20.0	26.6		mg/L		102	75 - 125
Sodium	25		20.0	44.2		mg/L		96	75 - 125

Lab Sample ID: 580-61281-E-1-D MSD
Matrix: Water
Analysis Batch: 223841

Client Sample ID: 580-61281-E-1-D MSD
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	59		20.0	76.6		mg/L		87	75 - 125	1	20
Iron	ND		22.0	19.6		mg/L		89	75 - 125	0	20
Magnesium	33		20.0	50.7		mg/L		90	75 - 125	2	20
Manganese	ND		1.00	0.899		mg/L		88	75 - 125	1	20
Potassium	6.8		20.0	28.3		mg/L		107	75 - 125	1	20

Lab Sample ID: 580-61281-E-1-D MSD
Matrix: Water
Analysis Batch: 223879

Client Sample ID: 580-61281-E-1-D MSD
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	61		20.0	80.0		mg/L		94	75 - 125	0	20
Iron	ND		22.0	21.5		mg/L		98	75 - 125	3	20
Magnesium	35		20.0	53.3		mg/L		94	75 - 125	1	20
Manganese	0.022		1.00	1.01		mg/L		99	75 - 125	2	20
Potassium	6.2		20.0	26.3		mg/L		100	75 - 125	1	20
Sodium	25		20.0	44.6		mg/L		98	75 - 125	1	20

Lab Sample ID: 580-61281-E-1-B DU
Matrix: Water
Analysis Batch: 223841

Client Sample ID: 580-61281-E-1-B DU
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	59		55.5		mg/L		6	20
Iron	ND		ND		mg/L		NC	20
Magnesium	33		30.8		mg/L		6	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-61281-E-1-B DU
Matrix: Water
Analysis Batch: 223841

Client Sample ID: 580-61281-E-1-B DU
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	ND		ND		mg/L		NC	20
Potassium	6.8		6.39		mg/L		6	20

Lab Sample ID: 580-61281-E-1-B DU
Matrix: Water
Analysis Batch: 223879

Client Sample ID: 580-61281-E-1-B DU
Prep Type: Dissolved
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	61		58.6		mg/L		4	20
Iron	ND		ND		mg/L		NC	20
Magnesium	35		33.2		mg/L		4	20
Manganese	0.022		0.0204		mg/L		8	20
Potassium	6.2		5.94		mg/L		4	20
Sodium	25		23.9		mg/L		5	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-223695/20-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Arsenic	ND		0.0010		mg/L		08/01/16 14:32	08/02/16 23:08	1
Barium	ND		0.0012		mg/L		08/01/16 14:32	08/02/16 23:08	1
Beryllium	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Cadmium	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Chromium	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Cobalt	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Copper	ND		0.0020		mg/L		08/01/16 14:32	08/02/16 23:08	1
Lead	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Nickel	ND		0.0030		mg/L		08/01/16 14:32	08/02/16 23:08	1
Selenium	ND		0.0010		mg/L		08/01/16 14:32	08/02/16 23:08	1
Silver	ND		0.00040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Thallium	ND		0.0010		mg/L		08/01/16 14:32	08/02/16 23:08	1
Vanadium	ND		0.0040		mg/L		08/01/16 14:32	08/02/16 23:08	1
Zinc	ND		0.0070		mg/L		08/01/16 14:32	08/02/16 23:08	1

Lab Sample ID: LCS 580-223695/21-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.08		mg/L		103	80 - 120
Arsenic	4.00	4.11		mg/L		103	80 - 120
Barium	4.00	4.14		mg/L		103	80 - 120
Beryllium	0.100	0.0989		mg/L		99	80 - 120
Cadmium	0.100	0.103		mg/L		103	80 - 120
Chromium	0.400	0.413		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-223695/21-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	1.00	1.00		mg/L		100	80 - 120
Copper	0.500	0.517		mg/L		103	80 - 120
Lead	1.00	1.02		mg/L		102	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	4.00	4.02		mg/L		101	80 - 120
Silver	0.600	0.615		mg/L		103	80 - 120
Thallium	4.00	3.82		mg/L		96	80 - 120
Vanadium	1.00	1.03		mg/L		103	80 - 120
Zinc	4.00	4.03		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-223695/22-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.00		mg/L		100	80 - 120	3	20
Arsenic	4.00	4.01		mg/L		100	80 - 120	3	20
Barium	4.00	3.97		mg/L		99	80 - 120	4	20
Beryllium	0.100	0.0991		mg/L		99	80 - 120	0	20
Cadmium	0.100	0.104		mg/L		104	80 - 120	0	20
Chromium	0.400	0.400		mg/L		100	80 - 120	3	20
Cobalt	1.00	0.975		mg/L		98	80 - 120	3	20
Copper	0.500	0.493		mg/L		99	80 - 120	5	20
Lead	1.00	0.984		mg/L		98	80 - 120	4	20
Nickel	1.00	0.979		mg/L		98	80 - 120	3	20
Selenium	4.00	3.88		mg/L		97	80 - 120	4	20
Silver	0.600	0.593		mg/L		99	80 - 120	4	20
Thallium	4.00	3.72		mg/L		93	80 - 120	3	20
Vanadium	1.00	0.983		mg/L		98	80 - 120	4	20
Zinc	4.00	3.93		mg/L		98	80 - 120	3	20

Lab Sample ID: 580-61281-1 MS
Matrix: Water
Analysis Batch: 223883

Client Sample ID: 0716-07
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.13		mg/L		104	80 - 120
Arsenic	0.0090		4.00	4.25		mg/L		106	80 - 120
Barium	0.022		4.00	4.25		mg/L		106	80 - 120
Beryllium	ND		0.100	0.106		mg/L		106	80 - 120
Cadmium	ND		0.100	0.106		mg/L		106	80 - 120
Chromium	0.00067		0.400	0.426		mg/L		106	80 - 120
Cobalt	ND		1.00	1.03		mg/L		103	80 - 120
Copper	0.0028		0.500	0.532		mg/L		106	80 - 120
Lead	ND		1.00	1.06		mg/L		106	80 - 120
Nickel	ND		1.00	1.04		mg/L		104	80 - 120
Selenium	ND		4.00	4.21		mg/L		105	80 - 120
Silver	ND		0.600	0.591		mg/L		98	80 - 120
Thallium	ND		4.00	4.00		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-61281-1 MS
Matrix: Water
Analysis Batch: 223883

Client Sample ID: 0716-07
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	ND		1.00	1.03		mg/L		103	80 - 120
Zinc	ND		4.00	4.20		mg/L		105	80 - 120

Lab Sample ID: 580-61281-1 MSD
Matrix: Water
Analysis Batch: 223883

Client Sample ID: 0716-07
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.18		mg/L		106	80 - 120	2	20
Arsenic	0.0090		4.00	4.25		mg/L		106	80 - 120	0	20
Barium	0.022		4.00	4.32		mg/L		107	80 - 120	2	20
Beryllium	ND		0.100	0.0991		mg/L		99	80 - 120	7	20
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120	1	20
Chromium	0.00067		0.400	0.431		mg/L		107	80 - 120	1	20
Cobalt	ND		1.00	1.03		mg/L		103	80 - 120	0	20
Copper	0.0028		0.500	0.523		mg/L		104	80 - 120	2	20
Lead	ND		1.00	1.05		mg/L		105	80 - 120	1	20
Nickel	ND		1.00	1.04		mg/L		104	80 - 120	0	20
Selenium	ND		4.00	4.19		mg/L		105	80 - 120	0	20
Silver	ND		0.600	0.591		mg/L		98	80 - 120	0	20
Thallium	ND		4.00	3.97		mg/L		99	80 - 120	1	20
Vanadium	ND		1.00	1.08		mg/L		107	80 - 120	4	20
Zinc	ND		4.00	4.16		mg/L		104	80 - 120	1	20

Lab Sample ID: 580-61281-1 DU
Matrix: Water
Analysis Batch: 223883

Client Sample ID: 0716-07
Prep Type: Total Recoverable
Prep Batch: 223695

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0090		0.00841		mg/L		7	20
Barium	0.022		0.0205		mg/L		7	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.00067		0.000639		mg/L		5	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0028		0.00243		mg/L		13	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-224303/3
Matrix: Water
Analysis Batch: 224303

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/04/16 10:04	1
Chloride	ND		0.90		mg/L			08/04/16 10:04	1
Sulfate	ND		1.2		mg/L			08/04/16 10:04	1

Lab Sample ID: LCS 580-224303/4
Matrix: Water
Analysis Batch: 224303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.10		mg/L		102	90 - 110
Chloride	50.0	52.6		mg/L		105	90 - 110
Sulfate	50.0	52.8		mg/L		106	90 - 110

Lab Sample ID: LCSD 580-224303/5
Matrix: Water
Analysis Batch: 224303

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
Fluoride	5.00	5.11		mg/L		102	90 - 110	0	15
Chloride	50.0	52.7		mg/L		105	90 - 110	0	15
Sulfate	50.0	52.8		mg/L		106	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-223460/1-A
Matrix: Water
Analysis Batch: 223508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		07/28/16 15:46	07/29/16 09:50	1

Lab Sample ID: LCS 580-223460/2-A
Matrix: Water
Analysis Batch: 223508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.99		mg/L		100	90 - 110

Lab Sample ID: 580-61281-1 MS
Matrix: Water
Analysis Batch: 223508

Client Sample ID: 0716-07
Prep Type: Total/NA
Prep Batch: 223460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND	F1	2.00	1.90	F1	mg/L		89	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 580-61281-1 MSD
Matrix: Water
Analysis Batch: 223508

Client Sample ID: 0716-07
Prep Type: Total/NA
Prep Batch: 223460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F1	2.00	1.76	F1	mg/L		82	90 - 110	7	20

Lab Sample ID: 580-61281-1 DU
Matrix: Water
Analysis Batch: 223508

Client Sample ID: 0716-07
Prep Type: Total/NA
Prep Batch: 223460

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND	F1	ND		mg/L		NC	20

Method: 353.2 - Nitrate-Nitrite

Lab Sample ID: MB 580-223467/14
Matrix: Water
Analysis Batch: 223467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			07/28/16 13:31	1

Lab Sample ID: MB 580-223467/47
Matrix: Water
Analysis Batch: 223467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			07/28/16 14:10	1

Lab Sample ID: LCS 580-223467/15
Matrix: Water
Analysis Batch: 223467

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	1.00	0.999		mg/L		100	90 - 110

Lab Sample ID: LCS 580-223467/48
Matrix: Water
Analysis Batch: 223467

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	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: LCSD 580-223467/16
Matrix: Water
Analysis Batch: 223467

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	1.00	0.996		mg/L		100	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCSD 580-223467/49
Matrix: Water
Analysis Batch: 223467

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	1.00	1.05		mg/L		105	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-223423/2
Matrix: Water
Analysis Batch: 223423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	107		mg/L		107	85 - 115

Lab Sample ID: 580-61281-1 DU
Matrix: Water
Analysis Batch: 223423

Client Sample ID: 0716-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	280		273		mg/L		2	17
Bicarbonate Alkalinity as CaCO3	280		273		mg/L		2	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-223468/1
Matrix: Water
Analysis Batch: 223468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			07/28/16 16:40	1

Lab Sample ID: LCS 580-223468/2
Matrix: Water
Analysis Batch: 223468

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	1000	1020		mg/L		102	80 - 120

Lab Sample ID: 580-61281-1 DU
Matrix: Water
Analysis Batch: 223468

Client Sample ID: 0716-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	390		402		mg/L		3	20

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Method: SM 5220D - COD

Lab Sample ID: MB 580-223392/3-A
Matrix: Water
Analysis Batch: 223422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223392

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		07/28/16 10:37	07/28/16 10:37	1

Lab Sample ID: LCS 580-223392/4-A
Matrix: Water
Analysis Batch: 223422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	69.7		mg/L		93	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-223666/1
Matrix: Water
Analysis Batch: 223666

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			08/01/16 11:33	1

Lab Sample ID: LCS 580-223666/2
Matrix: Water
Analysis Batch: 223666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.98		mg/L		100	85 - 115

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-07

Date Collected: 07/25/16 10:54
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/27/16 23:53	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 15:56	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:28	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/02/16 23:25	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 11:21	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223467	07/28/16 13:48	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Client Sample ID: 0716-06

Date Collected: 07/25/16 12:10
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 00:19	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 15:59	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:31	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:01	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 11:37	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223467	07/28/16 15:46	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-04

Date Collected: 07/25/16 13:33
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 00:46	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 16:03	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:34	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:06	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 11:52	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223467	07/28/16 15:48	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Client Sample ID: 0716-03

Date Collected: 07/25/16 14:30
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 01:12	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 16:06	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:37	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:10	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 12:08	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223467	07/28/16 13:52	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-02

Date Collected: 07/25/16 15:38
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 01:38	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 16:09	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:41	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:14	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 12:23	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223467	07/28/16 13:53	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Client Sample ID: 0716-24

Date Collected: 07/25/16 16:45
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 02:05	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 16:13	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:44	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:19	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 12:39	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223467	07/28/16 13:54	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Client Sample ID: 0716-30

Date Collected: 07/25/16 17:27
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 02:31	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 16:16	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:47	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:23	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 12:54	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223467	07/28/16 13:55	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Client Sample ID: 0716-13

Date Collected: 07/25/16 18:20
Date Received: 07/26/16 15:55

Lab Sample ID: 580-61281-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223363	07/28/16 02:57	CJ	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223841	08/02/16 16:19	HJM	TAL SEA
Dissolved	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Dissolved	Analysis	6010C		1	223879	08/03/16 09:50	HJM	TAL SEA
Total Recoverable	Prep	3005A			223695	08/01/16 14:32	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 00:28	FCW	TAL SEA
Total/NA	Analysis	300.0		1	224303	08/04/16 13:09	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			223460	07/28/16 15:46	EMM	TAL SEA
Total/NA	Analysis	350.1		1	223508	07/29/16 09:50	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223467	07/28/16 15:49	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223423	07/28/16 13:05	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223468	07/28/16 16:40	EMM	TAL SEA
Total/NA	Prep	SM 5220			223392	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223422	07/28/16 10:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223666	08/01/16 11:33	Z1T	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61281-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-61281-1	0716-07	Water	07/25/16 10:54	07/26/16 15:55
580-61281-2	0716-06	Water	07/25/16 12:10	07/26/16 15:55
580-61281-3	0716-04	Water	07/25/16 13:33	07/26/16 15:55
580-61281-4	0716-03	Water	07/25/16 14:30	07/26/16 15:55
580-61281-5	0716-02	Water	07/25/16 15:38	07/26/16 15:55
580-61281-6	0716-24	Water	07/25/16 16:45	07/26/16 15:55
580-61281-7	0716-30	Water	07/25/16 17:27	07/26/16 15:55
580-61281-8	0716-13	Water	07/25/16 18:20	07/26/16 15:55

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

61281

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

580-61281 Chain of Custody

Client Information

Client Contact: Joantha Guthrie
Company: Island County Public Works
Address: 1 NE 6th Street
City: Coupeville
State, Zip: WA, 98239
Phone: 425-289-5455(Tel)
Email: joanthag@co.island.wa.us
Project Name: Coupeville Solid Waste Facility Groundwa
Site: Coupeville Solid Waste Facility

Sampler: Sam Graber
Phone: (612) 940-2980
Lab PM: Murphy, Sarah A
E-Mail: sarah.murphy@testamericainc.com
Carrier Tracking No(s):
COC No: 580-20833-6350.4
Page: Page 4 of 4
Job #: 042070339.09

Due Date Requested: standard
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 58009563
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 - Na2S2O3, 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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of Containers	Special Instructions/Note:
				Preservation Code:				S	N	D	D	S	A	N		
-1	0716-07	7/25/16	1054	G	Water	Y	N	X	X	X	X	X	X		8	
	0716-06		1210		Water											
-3	0716-04		1333		Water											
	0716-03		1430		Water											
-5	0716-02		1538		Water											
	0716-24		1645		Water											
-7	0716-30		1727		Water											
	0716-13		1820		Water											
-9	Trip blank		-	-	Water	N									3	

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: Sam Graber	Date/Time: 7/26/16 830	Company SCS	Received by:	Date/Time: 7/26/16 1555	Company TA-SEA
Relinquished by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

TB ___ Cooler IR Cor 7.1 Unc 6.9 °C
Cooler Dsc Lg Bluelnkt @Lab 1555
Wet/Packs Packing Bubble
w/o

TB ___ Cooler IR2 Cor 7.1 Unc 6.9 °C
Cooler Dsc Lg Bluelnkt @Lab 1555
Wet/Packs Packing 08/9/2016
w/o

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-61281-1

Login Number: 61281
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-61335-1
Client Project/Site: Coupeville Solid Waste Facility

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
8/18/2016 10:34:14 AM

Sarah Murphy, Project Manager I
(253)922-2310
sarah.murphy@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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Job ID: 580-61335-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 7/28/2016 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.7º C, 2.1º C, 2.6º C, 4.3º C, 4.7º C and 5.0º C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-223674 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0716-09 (580-61335-1), 0716-08 (580-61335-2), 0716-14 (580-61335-3), 0716-95 (580-61335-4), 0716-97 (580-61335-5), 0716-98 (580-61335-6), 0716-01 (580-61335-7), 0716-27 (580-61335-8) and (CCVIS 580-223674/3).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-223674 recovered outside acceptance criteria, low biased, for Vinyl chloride, Naphthalene, Dichlorodifluoromethane and Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-223900 recovered outside acceptance criteria, low biased, for Vinyl chloride, Chloromethane, and 4-Methyl-2-pentanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-223900 recovered above the upper control limit for 2-Butanone and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0716-15 (580-61335-9), 0716-16 (580-61335-10), 0716-19 (580-61335-11), 0716-31 (580-61335-12), 0716-20 (580-61335-13), 0716-32 (580-61335-14), 0716-21 (580-61335-15), 0716-22 (580-61335-16), 0716-23 (580-61335-17), 0716-05 (580-61335-18), 0716-12 (580-61335-19), 0716-28 (580-61335-20), 0716-10 (580-61335-21), 0716-11 (580-61335-22), 0716-25 (580-61335-23), 0716-26 (580-61335-24) and (CCVIS 580-223900/3).

Method(s) 8260C: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with analytical batch 580-223900: Acrylonitrile and Chloromethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-224475 was outside criteria for the following analyte(s): 2-Hexanone and 2-Butanone (MEK). As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: Reanalysis of the following sample was performed due to quality control deficiencies in the initial analysis. Every effort was made to reanalyze all samples within hold, but due to necessary instrument maintenance the re-analysis for this sample was performed six minutes outside of the analytical holding time. Results confirm non-detect for acetone in batch 223674 where results are set to primary: 0716-27 (580-61335-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8151A: The surrogate recovery for the method blank (MB) associated with preparation batch 580-223876 and analytical batch 580-224246 was outside control limits. All other QC elements and client samples in the batch had acceptable surrogate recovery; data is qualified and reported.

Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 580-224246 recovered above the upper control limit for Dalapon. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: 0716-26 (580-61335-24), (CCVIS 580-224246/2), (LCS 580-223876/2-A), (LCSD 580-223876/3-A) and (MB 580-223876/1-A).

Method(s) 8151A: Dalapon recovered outside control limits for the LCS and LCSD associated with preparation batch 580-223876 and analytical batch 580-224246. This random marginal exceedance does not indicate a systematic control problem; qualified results have been reported.

Job ID: 580-61335-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 490-362591 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method(s) 300.0: Due to the high concentration of Chloride and Sulfate, the matrix spike (MS) for analytical batch 490-362592 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 300.0: Due to the nature of the sample matrix, a matrix spike / matrix spike duplicate was not analyzed with batch 363248. However, the laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. (LCS 490-363248/4)

Method(s) 300.0: Due to the nature of the sample matrix, a matrix spike / matrix spike duplicate was not analyzed with batch 363247. However, the laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits. (LCS 490-363247/4)

Method(s) 300.0: The following samples were diluted due to the nature of the sample matrix: 0716-09 (580-61335-1), 0716-08 (580-61335-2), 0716-14 (580-61335-3), 0716-27 (580-61335-8), 0716-15 (580-61335-9), 0716-19 (580-61335-11), 0716-31 (580-61335-12), 0716-21 (580-61335-15), 0716-22 (580-61335-16), 0716-23 (580-61335-17), 0716-12 (580-61335-19), 0716-28 (580-61335-20), 0716-10 (580-61335-21), 0716-11 (580-61335-22), 0716-25 (580-61335-23), 0716-26 (580-61335-24), 0716-18 (580-61335-26), 0716-17 (580-61335-27) and 0716-29 (580-61335-28). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-09
Date Collected: 07/26/16 10:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 00:05	1
Vinyl chloride	ND		0.020		ug/L			08/02/16 00:05	1
Bromomethane	ND		1.0		ug/L			08/02/16 00:05	1
Chloroethane	ND		0.50		ug/L			08/02/16 00:05	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 00:05	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 00:05	1
Methyl iodide	ND		0.50		ug/L			08/02/16 00:05	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 00:05	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 00:05	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 00:05	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 00:05	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 00:05	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 00:05	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 00:05	1
2-Butanone	ND		15		ug/L			08/02/16 00:05	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 00:05	1
Chloroform	ND		0.20		ug/L			08/02/16 00:05	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 00:05	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 00:05	1
Benzene	ND		0.20		ug/L			08/02/16 00:05	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 00:05	1
Trichloroethene	ND		0.20		ug/L			08/02/16 00:05	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 00:05	1
Dibromomethane	ND		0.20		ug/L			08/02/16 00:05	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 00:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 00:05	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 00:05	1
Toluene	ND		0.20		ug/L			08/02/16 00:05	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 00:05	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 00:05	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 00:05	1
2-Hexanone	ND		2.0		ug/L			08/02/16 00:05	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 00:05	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 00:05	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 00:05	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 00:05	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 00:05	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 00:05	1
o-Xylene	ND		0.50		ug/L			08/02/16 00:05	1
Styrene	ND		0.50		ug/L			08/02/16 00:05	1
Bromoform	ND		0.50		ug/L			08/02/16 00:05	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 00:05	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 00:05	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 00:05	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 00:05	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 00:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 00:05	1

Client Sample ID: 0716-09
Date Collected: 07/26/16 10:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*08/02/16 00:05*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*08/02/16 00:05*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*08/02/16 00:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*		*08/02/16 00:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*46 - 150*		*08/02/16 00:05*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/09/16 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*08/09/16 21:54*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*08/09/16 21:54*	*1*
Dibromofluoromethane (Surr)	*93*		*42 - 132*		*08/09/16 21:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*08/09/16 21:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*46 - 150*		*08/09/16 21:54*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44**		2.0		mg/L			08/16/16 16:35	2
Fluoride	**0.17**	**F1**	0.10		mg/L			08/13/16 18:21	1
Sulfate	**34**		1.0		mg/L			08/13/16 18:21	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65**		1.1		mg/L		08/03/16 14:01	08/05/16 08:48	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 08:48	1
Magnesium	**41**		1.1		mg/L		08/03/16 14:01	08/05/16 08:48	1
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 08:48	1
Potassium	**6.4**		3.3		mg/L		08/03/16 14:01	08/05/16 08:48	1
Sodium	**26**		2.0		mg/L		08/03/16 14:01	08/05/16 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Arsenic	**0.0042**		0.0010		mg/L		08/02/16 11:49	08/03/16 02:38	1
Barium	**0.028**		0.0012		mg/L		08/02/16 11:49	08/03/16 02:38	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Chromium	**0.00056**		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Copper	**0.0023**		0.0020		mg/L		08/02/16 11:49	08/03/16 02:38	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Nickel	ND		0.0030		mg/L		08/02/16 11:49	08/03/16 02:38	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:38	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:38	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 02:38	1
Zinc	ND		0.0070		mg/L		08/02/16 11:49	08/03/16 02:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-09
Date Collected: 07/26/16 10:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:45	1
Total Organic Carbon	**1.1**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**430**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-08
Date Collected: 07/26/16 11:06
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 00:31	1
Bromomethane	ND		1.0		ug/L			08/02/16 00:31	1
Chloroethane	ND		0.50		ug/L			08/02/16 00:31	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 00:31	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 00:31	1
Methyl iodide	ND		0.50		ug/L			08/02/16 00:31	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 00:31	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 00:31	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 00:31	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 00:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 00:31	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 00:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 00:31	1
2-Butanone	ND		15		ug/L			08/02/16 00:31	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 00:31	1
Chloroform	ND		0.20		ug/L			08/02/16 00:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 00:31	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 00:31	1
Benzene	ND		0.20		ug/L			08/02/16 00:31	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 00:31	1
Trichloroethene	ND		0.20		ug/L			08/02/16 00:31	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 00:31	1
Dibromomethane	ND		0.20		ug/L			08/02/16 00:31	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 00:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 00:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 00:31	1
Toluene	ND		0.20		ug/L			08/02/16 00:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 00:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 00:31	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 00:31	1
2-Hexanone	ND		2.0		ug/L			08/02/16 00:31	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 00:31	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 00:31	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 00:31	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 00:31	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 00:31	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 00:31	1
o-Xylene	ND		0.50		ug/L			08/02/16 00:31	1
Styrene	ND		0.50		ug/L			08/02/16 00:31	1
Bromoform	ND		0.50		ug/L			08/02/16 00:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 00:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 00:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 00:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 00:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 00:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*08/02/16 00:31*	*1*

Client Sample ID: 0716-08
Date Collected: 07/26/16 11:06
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*08/02/16 00:31*	*1*
Dibromofluoromethane (Surr)	*96*		*42 - 132*		*08/02/16 00:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*08/02/16 00:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*46 - 150*		*08/02/16 00:31*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			08/05/16 21:04	1
Acetone	ND		2.0		ug/L			08/05/16 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*08/05/16 21:04*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*08/05/16 21:04*	*1*
Dibromofluoromethane (Surr)	*121*		*42 - 132*		*08/05/16 21:04*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*08/05/16 21:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*46 - 150*		*08/05/16 21:04*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.0		mg/L			08/16/16 16:46	5
Fluoride	**0.14**		0.10		mg/L			08/13/16 18:43	1
Sulfate	**58**		5.0		mg/L			08/16/16 16:46	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		08/03/16 14:01	08/05/16 09:12	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:12	1
Magnesium	**90**		1.1		mg/L		08/03/16 14:01	08/05/16 09:12	1
Manganese	**0.23**		0.020		mg/L		08/03/16 14:01	08/05/16 09:12	1
Potassium	**9.7**		3.3		mg/L		08/03/16 14:01	08/05/16 09:12	1
Sodium	**44**		2.0		mg/L		08/03/16 14:01	08/05/16 09:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Arsenic	**0.0049**		0.0010		mg/L		08/02/16 11:49	08/03/16 02:42	1
Barium	**0.085**		0.0012		mg/L		08/02/16 11:49	08/03/16 02:42	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Chromium	**0.00044**		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Copper	ND		0.0020		mg/L		08/02/16 11:49	08/03/16 02:42	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Nickel	**0.0089**		0.0030		mg/L		08/02/16 11:49	08/03/16 02:42	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:42	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:42	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 02:42	1
Zinc	ND		0.0070		mg/L		08/02/16 11:49	08/03/16 02:42	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-08
Date Collected: 07/26/16 11:06
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:50	1
Total Organic Carbon	**2.6**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**600**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**600**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**820**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-14
Date Collected: 07/26/16 12:48
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 00:57	1
Vinyl chloride	ND		0.020		ug/L			08/02/16 00:57	1
Bromomethane	ND		1.0		ug/L			08/02/16 00:57	1
Chloroethane	ND		0.50		ug/L			08/02/16 00:57	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 00:57	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 00:57	1
Methyl iodide	ND		0.50		ug/L			08/02/16 00:57	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 00:57	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 00:57	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 00:57	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 00:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 00:57	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 00:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 00:57	1
2-Butanone	ND		15		ug/L			08/02/16 00:57	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 00:57	1
Chloroform	ND		0.20		ug/L			08/02/16 00:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 00:57	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 00:57	1
Benzene	ND		0.20		ug/L			08/02/16 00:57	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 00:57	1
Trichloroethene	ND		0.20		ug/L			08/02/16 00:57	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 00:57	1
Dibromomethane	ND		0.20		ug/L			08/02/16 00:57	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 00:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 00:57	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 00:57	1
Toluene	ND		0.20		ug/L			08/02/16 00:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 00:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 00:57	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 00:57	1
2-Hexanone	ND		2.0		ug/L			08/02/16 00:57	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 00:57	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 00:57	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 00:57	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 00:57	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 00:57	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 00:57	1
o-Xylene	ND		0.50		ug/L			08/02/16 00:57	1
Styrene	ND		0.50		ug/L			08/02/16 00:57	1
Bromoform	ND		0.50		ug/L			08/02/16 00:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 00:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 00:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 00:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 00:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 00:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 00:57	1

Client Sample ID: 0716-14
Date Collected: 07/26/16 12:48
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*08/02/16 00:57*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*08/02/16 00:57*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*08/02/16 00:57*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/02/16 00:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*46 - 150*		*08/02/16 00:57*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/09/16 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*08/09/16 22:20*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*08/09/16 22:20*	*1*
Dibromofluoromethane (Surr)	*97*		*42 - 132*		*08/09/16 22:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*08/09/16 22:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*46 - 150*		*08/09/16 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		5.0		mg/L			08/16/16 16:56	5
Fluoride	**0.17**		0.10		mg/L			08/13/16 18:54	1
Sulfate	**33**		1.0		mg/L			08/13/16 18:54	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**51**		1.1		mg/L		08/03/16 14:01	08/05/16 09:16	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:16	1
Magnesium	**65**		1.1		mg/L		08/03/16 14:01	08/05/16 09:16	1
Manganese	**0.14**		0.020		mg/L		08/03/16 14:01	08/05/16 09:16	1
Potassium	**9.2**		3.3		mg/L		08/03/16 14:01	08/05/16 09:16	1
Sodium	**41**		2.0		mg/L		08/03/16 14:01	08/05/16 09:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Arsenic	**0.0092**		0.0010		mg/L		08/02/16 11:49	08/03/16 02:47	1
Barium	**0.062**		0.0012		mg/L		08/02/16 11:49	08/03/16 02:47	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Chromium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Copper	ND		0.0020		mg/L		08/02/16 11:49	08/03/16 02:47	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Nickel	ND		0.0030		mg/L		08/02/16 11:49	08/03/16 02:47	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:47	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:47	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 02:47	1
Zinc	ND		0.0070		mg/L		08/02/16 11:49	08/03/16 02:47	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-14
Date Collected: 07/26/16 12:48
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.23**		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:51	1
Total Organic Carbon	**2.1**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**540**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-95
Date Collected: 07/26/16 13:53
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 01:23	1
Vinyl chloride	ND		0.020		ug/L			08/02/16 01:23	1
Bromomethane	ND		1.0		ug/L			08/02/16 01:23	1
Chloroethane	ND		0.50		ug/L			08/02/16 01:23	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 01:23	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 01:23	1
Methyl iodide	ND		0.50		ug/L			08/02/16 01:23	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 01:23	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 01:23	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 01:23	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 01:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 01:23	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 01:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 01:23	1
2-Butanone	ND		15		ug/L			08/02/16 01:23	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 01:23	1
Chloroform	ND		0.20		ug/L			08/02/16 01:23	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 01:23	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 01:23	1
Benzene	ND		0.20		ug/L			08/02/16 01:23	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 01:23	1
Trichloroethene	ND		0.20		ug/L			08/02/16 01:23	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 01:23	1
Dibromomethane	ND		0.20		ug/L			08/02/16 01:23	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 01:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 01:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 01:23	1
Toluene	ND		0.20		ug/L			08/02/16 01:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 01:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 01:23	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 01:23	1
2-Hexanone	ND		2.0		ug/L			08/02/16 01:23	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 01:23	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 01:23	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 01:23	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 01:23	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 01:23	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 01:23	1
o-Xylene	ND		0.50		ug/L			08/02/16 01:23	1
Styrene	ND		0.50		ug/L			08/02/16 01:23	1
Bromoform	ND		0.50		ug/L			08/02/16 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 01:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 01:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 01:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 01:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 01:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 01:23	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-95
Date Collected: 07/26/16 13:53
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*08/02/16 01:23*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*08/02/16 01:23*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*08/02/16 01:23*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*08/02/16 01:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*46 - 150*		*08/02/16 01:23*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/09/16 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*08/09/16 22:46*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*08/09/16 22:46*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*08/09/16 22:46*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*08/09/16 22:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*46 - 150*		*08/09/16 22:46*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-97
Date Collected: 07/26/16 14:52
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 01:50	1
Bromomethane	ND		1.0		ug/L			08/02/16 01:50	1
Chloroethane	ND		0.50		ug/L			08/02/16 01:50	1
Trichlorofluoromethane	**79**		0.50		ug/L			08/02/16 01:50	1
1,1-Dichloroethene	**1.8**		0.10		ug/L			08/02/16 01:50	1
Methyl iodide	ND		0.50		ug/L			08/02/16 01:50	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 01:50	1
Methylene Chloride	**0.88**		0.50		ug/L			08/02/16 01:50	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 01:50	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 01:50	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 01:50	1
1,1-Dichloroethane	**2.6**		0.20		ug/L			08/02/16 01:50	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 01:50	1
2-Butanone	ND		15		ug/L			08/02/16 01:50	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 01:50	1
Chloroform	**0.29**		0.20		ug/L			08/02/16 01:50	1
1,1,1-Trichloroethane	**1.1**		0.20		ug/L			08/02/16 01:50	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 01:50	1
Benzene	ND		0.20		ug/L			08/02/16 01:50	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 01:50	1
Trichloroethene	ND		0.20		ug/L			08/02/16 01:50	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 01:50	1
Dibromomethane	ND		0.20		ug/L			08/02/16 01:50	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 01:50	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 01:50	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 01:50	1
Toluene	ND		0.20		ug/L			08/02/16 01:50	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 01:50	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 01:50	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 01:50	1
2-Hexanone	ND		2.0		ug/L			08/02/16 01:50	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 01:50	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 01:50	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 01:50	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 01:50	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 01:50	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 01:50	1
o-Xylene	ND		0.50		ug/L			08/02/16 01:50	1
Styrene	ND		0.50		ug/L			08/02/16 01:50	1
Bromoform	ND		0.50		ug/L			08/02/16 01:50	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 01:50	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 01:50	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 01:50	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 01:50	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 01:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*08/02/16 01:50*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-97
Date Collected: 07/26/16 14:52
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*08/02/16 01:50*	*1*
Dibromofluoromethane (Surr)	*105*		*42 - 132*		*08/02/16 01:50*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*08/02/16 01:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*46 - 150*		*08/02/16 01:50*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**6.4**		0.020		ug/L			08/05/16 22:48	1
Acetone	ND		2.0		ug/L			08/05/16 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*75 - 125*		*08/05/16 22:48*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*08/05/16 22:48*	*1*
Dibromofluoromethane (Surr)	*122*		*42 - 132*		*08/05/16 22:48*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*08/05/16 22:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*		*46 - 150*		*08/05/16 22:48*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-98
Date Collected: 07/26/16 16:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 02:15	1
Vinyl chloride	ND		0.020		ug/L			08/02/16 02:15	1
Bromomethane	ND		1.0		ug/L			08/02/16 02:15	1
Chloroethane	ND		0.50		ug/L			08/02/16 02:15	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 02:15	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 02:15	1
Methyl iodide	ND		0.50		ug/L			08/02/16 02:15	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 02:15	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 02:15	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 02:15	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 02:15	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 02:15	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 02:15	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 02:15	1
2-Butanone	ND		15		ug/L			08/02/16 02:15	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 02:15	1
Chloroform	ND		0.20		ug/L			08/02/16 02:15	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 02:15	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 02:15	1
Benzene	ND		0.20		ug/L			08/02/16 02:15	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 02:15	1
Trichloroethene	ND		0.20		ug/L			08/02/16 02:15	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 02:15	1
Dibromomethane	ND		0.20		ug/L			08/02/16 02:15	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 02:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 02:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 02:15	1
Toluene	ND		0.20		ug/L			08/02/16 02:15	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 02:15	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 02:15	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 02:15	1
2-Hexanone	ND		2.0		ug/L			08/02/16 02:15	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 02:15	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 02:15	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 02:15	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 02:15	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 02:15	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 02:15	1
o-Xylene	ND		0.50		ug/L			08/02/16 02:15	1
Styrene	ND		0.50		ug/L			08/02/16 02:15	1
Bromoform	ND		0.50		ug/L			08/02/16 02:15	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 02:15	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 02:15	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 02:15	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 02:15	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 02:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 02:15	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-98
Date Collected: 07/26/16 16:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*08/02/16 02:15*	*1*
Trifluorotoluene (Surr)	*95*		*74 - 118*		*08/02/16 02:15*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*08/02/16 02:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*81 - 120*		*08/02/16 02:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*46 - 150*		*08/02/16 02:15*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/09/16 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*08/09/16 23:13*	*1*
Trifluorotoluene (Surr)	*105*		*74 - 118*		*08/09/16 23:13*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/09/16 23:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*08/09/16 23:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*08/09/16 23:13*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-01
Date Collected: 07/26/16 16:37
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 02:41	1
Vinyl chloride	ND		0.020		ug/L			08/02/16 02:41	1
Bromomethane	ND		1.0		ug/L			08/02/16 02:41	1
Chloroethane	ND		0.50		ug/L			08/02/16 02:41	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 02:41	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 02:41	1
Methyl iodide	ND		0.50		ug/L			08/02/16 02:41	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 02:41	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 02:41	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 02:41	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 02:41	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 02:41	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 02:41	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 02:41	1
2-Butanone	ND		15		ug/L			08/02/16 02:41	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 02:41	1
Chloroform	ND		0.20		ug/L			08/02/16 02:41	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 02:41	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 02:41	1
Benzene	ND		0.20		ug/L			08/02/16 02:41	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 02:41	1
Trichloroethene	ND		0.20		ug/L			08/02/16 02:41	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 02:41	1
Dibromomethane	ND		0.20		ug/L			08/02/16 02:41	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 02:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 02:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 02:41	1
Toluene	ND		0.20		ug/L			08/02/16 02:41	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 02:41	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 02:41	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 02:41	1
2-Hexanone	ND		2.0		ug/L			08/02/16 02:41	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 02:41	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 02:41	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 02:41	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 02:41	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 02:41	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 02:41	1
o-Xylene	ND		0.50		ug/L			08/02/16 02:41	1
Styrene	ND		0.50		ug/L			08/02/16 02:41	1
Bromoform	ND		0.50		ug/L			08/02/16 02:41	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 02:41	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 02:41	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 02:41	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 02:41	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 02:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 02:41	1

Client Sample ID: 0716-01
Date Collected: 07/26/16 16:37
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*08/02/16 02:41*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*08/02/16 02:41*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/02/16 02:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/02/16 02:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*46 - 150*		*08/02/16 02:41*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/09/16 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*08/09/16 23:39*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*08/09/16 23:39*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*08/09/16 23:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*08/09/16 23:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*08/09/16 23:39*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23**		1.0		mg/L			08/13/16 19:05	1
Fluoride	**0.15**		0.10		mg/L			08/13/16 19:05	1
Sulfate	**21**		1.0		mg/L			08/13/16 19:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**55**		1.1		mg/L		08/03/16 14:01	08/05/16 09:19	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:19	1
Magnesium	**38**		1.1		mg/L		08/03/16 14:01	08/05/16 09:19	1
Manganese	**0.14**		0.020		mg/L		08/03/16 14:01	08/05/16 09:19	1
Potassium	**5.9**		3.3		mg/L		08/03/16 14:01	08/05/16 09:19	1
Sodium	**23**		2.0		mg/L		08/03/16 14:01	08/05/16 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Arsenic	**0.0081**		0.0010		mg/L		08/02/16 11:49	08/03/16 02:51	1
Barium	**0.024**		0.0012		mg/L		08/02/16 11:49	08/03/16 02:51	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Chromium	**0.00040**		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Copper	ND		0.0020		mg/L		08/02/16 11:49	08/03/16 02:51	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Nickel	ND		0.0030		mg/L		08/02/16 11:49	08/03/16 02:51	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:51	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:51	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 02:51	1
Zinc	**0.037**		0.0070		mg/L		08/02/16 11:49	08/03/16 02:51	1

Client Sample ID: 0716-01
Date Collected: 07/26/16 16:37
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:52	1
Total Organic Carbon	**1.0**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**390**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-27
Date Collected: 07/26/16 17:58
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/02/16 03:08	1
Vinyl chloride	ND		0.020		ug/L			08/02/16 03:08	1
Bromomethane	ND		1.0		ug/L			08/02/16 03:08	1
Chloroethane	ND		0.50		ug/L			08/02/16 03:08	1
Trichlorofluoromethane	ND		0.50		ug/L			08/02/16 03:08	1
1,1-Dichloroethene	ND		0.10		ug/L			08/02/16 03:08	1
Methyl iodide	ND		0.50		ug/L			08/02/16 03:08	1
Carbon disulfide	ND		0.20		ug/L			08/02/16 03:08	1
Acetone	ND		2.0		ug/L			08/02/16 03:08	1
Methylene Chloride	ND		0.50		ug/L			08/02/16 03:08	1
Acrylonitrile	ND		5.0		ug/L			08/02/16 03:08	1
Vinyl acetate	ND		1.0		ug/L			08/02/16 03:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 03:08	1
1,1-Dichloroethane	ND		0.20		ug/L			08/02/16 03:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/02/16 03:08	1
2-Butanone	ND		15		ug/L			08/02/16 03:08	1
Bromochloromethane	ND		0.20		ug/L			08/02/16 03:08	1
Chloroform	ND		0.20		ug/L			08/02/16 03:08	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/02/16 03:08	1
Carbon tetrachloride	ND		0.20		ug/L			08/02/16 03:08	1
Benzene	ND		0.20		ug/L			08/02/16 03:08	1
1,2-Dichloroethane	ND		0.20		ug/L			08/02/16 03:08	1
Trichloroethene	ND		0.20		ug/L			08/02/16 03:08	1
1,2-Dichloropropane	ND		0.20		ug/L			08/02/16 03:08	1
Dibromomethane	ND		0.20		ug/L			08/02/16 03:08	1
Bromodichloromethane	ND		0.20		ug/L			08/02/16 03:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/02/16 03:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/02/16 03:08	1
Toluene	ND		0.20		ug/L			08/02/16 03:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/02/16 03:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/02/16 03:08	1
Tetrachloroethene	ND		0.50		ug/L			08/02/16 03:08	1
2-Hexanone	ND		2.0		ug/L			08/02/16 03:08	1
Dibromochloromethane	ND		0.20		ug/L			08/02/16 03:08	1
1,2-Dibromoethane	ND		0.10		ug/L			08/02/16 03:08	1
Chlorobenzene	ND		0.20		ug/L			08/02/16 03:08	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 03:08	1
Ethylbenzene	ND		0.20		ug/L			08/02/16 03:08	1
m,p-Xylene	ND		0.50		ug/L			08/02/16 03:08	1
o-Xylene	ND		0.50		ug/L			08/02/16 03:08	1
Styrene	ND		0.50		ug/L			08/02/16 03:08	1
Bromoform	ND		0.50		ug/L			08/02/16 03:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/02/16 03:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/02/16 03:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/02/16 03:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/02/16 03:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/02/16 03:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/02/16 03:08	1

Client Sample ID: 0716-27
Date Collected: 07/26/16 17:58
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*75 - 125*		*08/02/16 03:08*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*08/02/16 03:08*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*08/02/16 03:08*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*		*08/02/16 03:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*46 - 150*		*08/02/16 03:08*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			08/10/16 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*08/10/16 00:06*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*08/10/16 00:06*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/10/16 00:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*08/10/16 00:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*08/10/16 00:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		5.0		mg/L			08/16/16 17:07	5
Fluoride	**0.18**		0.10		mg/L			08/13/16 19:16	1
Sulfate	**26**		1.0		mg/L			08/13/16 19:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**66**		1.1		mg/L		08/03/16 14:01	08/05/16 09:22	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:22	1
Magnesium	**59**		1.1		mg/L		08/03/16 14:01	08/05/16 09:22	1
Manganese	**0.19**		0.020		mg/L		08/03/16 14:01	08/05/16 09:22	1
Potassium	**7.6**		3.3		mg/L		08/03/16 14:01	08/05/16 09:22	1
Sodium	**33**		2.0		mg/L		08/03/16 14:01	08/05/16 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Arsenic	**0.013**		0.0010		mg/L		08/02/16 11:49	08/03/16 02:55	1
Barium	**0.047**		0.0012		mg/L		08/02/16 11:49	08/03/16 02:55	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Chromium	**0.00089**		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Copper	ND		0.0020		mg/L		08/02/16 11:49	08/03/16 02:55	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Nickel	**0.0032**		0.0030		mg/L		08/02/16 11:49	08/03/16 02:55	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:55	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 02:55	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 02:55	1
Zinc	ND		0.0070		mg/L		08/02/16 11:49	08/03/16 02:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-27
Date Collected: 07/26/16 17:58
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:55	1
Total Organic Carbon	**1.8**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**520**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-15
Date Collected: 07/26/16 10:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 20:34	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 20:34	1
Bromomethane	ND		1.0		ug/L			08/03/16 20:34	1
Chloroethane	ND		0.50		ug/L			08/03/16 20:34	1
Trichlorofluoromethane	ND		0.50		ug/L			08/03/16 20:34	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 20:34	1
Methyl iodide	ND		0.50		ug/L			08/03/16 20:34	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 20:34	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 20:34	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 20:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 20:34	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 20:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 20:34	1
2-Butanone	ND		15		ug/L			08/03/16 20:34	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 20:34	1
Chloroform	ND		0.20		ug/L			08/03/16 20:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/03/16 20:34	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 20:34	1
Benzene	ND		0.20		ug/L			08/03/16 20:34	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 20:34	1
Trichloroethene	ND		0.20		ug/L			08/03/16 20:34	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 20:34	1
Dibromomethane	ND		0.20		ug/L			08/03/16 20:34	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 20:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 20:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 20:34	1
Toluene	ND		0.20		ug/L			08/03/16 20:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 20:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 20:34	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 20:34	1
2-Hexanone	ND		2.0		ug/L			08/03/16 20:34	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 20:34	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 20:34	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 20:34	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 20:34	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 20:34	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 20:34	1
o-Xylene	ND		0.50		ug/L			08/03/16 20:34	1
Styrene	ND		0.50		ug/L			08/03/16 20:34	1
Bromoform	ND		0.50		ug/L			08/03/16 20:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 20:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 20:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 20:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 20:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 20:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*75 - 125*		*08/03/16 20:34*	*1*

Client Sample ID: 0716-15
Date Collected: 07/26/16 10:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*08/03/16 20:34*	*1*
Dibromofluoromethane (Surr)	*95*		*42 - 132*		*08/03/16 20:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*08/03/16 20:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*08/03/16 20:34*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 00:33	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*08/06/16 00:33*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*08/06/16 00:33*	*1*
Dibromofluoromethane (Surr)	*123*		*42 - 132*		*08/06/16 00:33*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*08/06/16 00:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*132*		*46 - 150*		*08/06/16 00:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		10		mg/L			08/16/16 17:18	10
Fluoride	**0.14**		0.10		mg/L			08/13/16 19:26	1
Sulfate	**190**		10		mg/L			08/16/16 17:18	10

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		08/03/16 14:01	08/05/16 09:26	1
Iron	**0.42**		0.30		mg/L		08/03/16 14:01	08/05/16 09:26	1
Magnesium	**98**		1.1		mg/L		08/03/16 14:01	08/05/16 09:26	1
Manganese	**0.21**		0.020		mg/L		08/03/16 14:01	08/05/16 09:26	1
Potassium	**9.6**		3.3		mg/L		08/03/16 14:01	08/05/16 09:26	1
Sodium	**46**		2.0		mg/L		08/03/16 14:01	08/05/16 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Arsenic	**0.0067**		0.0010		mg/L		08/02/16 11:49	08/03/16 03:00	1
Barium	**0.11**		0.0012		mg/L		08/02/16 11:49	08/03/16 03:00	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Chromium	**0.00040**		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Copper	ND		0.0020		mg/L		08/02/16 11:49	08/03/16 03:00	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Nickel	**0.011**		0.0030		mg/L		08/02/16 11:49	08/03/16 03:00	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 03:00	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 03:00	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 03:00	1
Zinc	ND		0.0070		mg/L		08/02/16 11:49	08/03/16 03:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-15
Date Collected: 07/26/16 10:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:57	1
Total Organic Carbon	**3.3**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**530**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**530**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**900**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-16
Date Collected: 07/26/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 21:00	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 21:00	1
Bromomethane	ND		1.0		ug/L			08/03/16 21:00	1
Chloroethane	ND		0.50		ug/L			08/03/16 21:00	1
Trichlorofluoromethane	ND		0.50		ug/L			08/03/16 21:00	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 21:00	1
Methyl iodide	ND		0.50		ug/L			08/03/16 21:00	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 21:00	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 21:00	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 21:00	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 21:00	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 21:00	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 21:00	1
2-Butanone	ND		15		ug/L			08/03/16 21:00	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 21:00	1
Chloroform	ND		0.20		ug/L			08/03/16 21:00	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/03/16 21:00	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 21:00	1
Benzene	ND		0.20		ug/L			08/03/16 21:00	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 21:00	1
Trichloroethene	ND		0.20		ug/L			08/03/16 21:00	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 21:00	1
Dibromomethane	ND		0.20		ug/L			08/03/16 21:00	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 21:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 21:00	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 21:00	1
Toluene	ND		0.20		ug/L			08/03/16 21:00	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 21:00	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 21:00	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 21:00	1
2-Hexanone	ND		2.0		ug/L			08/03/16 21:00	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 21:00	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 21:00	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 21:00	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 21:00	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 21:00	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 21:00	1
o-Xylene	ND		0.50		ug/L			08/03/16 21:00	1
Styrene	ND		0.50		ug/L			08/03/16 21:00	1
Bromoform	ND		0.50		ug/L			08/03/16 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 21:00	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 21:00	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 21:00	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 21:00	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 21:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*08/03/16 21:00*	*1*

Client Sample ID: 0716-16
Date Collected: 07/26/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*08/03/16 21:00*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/03/16 21:00*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/03/16 21:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*08/03/16 21:00*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 00:59	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/06/16 00:59*	*1*
Trifluorotoluene (Surr)	*94*		*74 - 118*		*08/06/16 00:59*	*1*
Dibromofluoromethane (Surr)	*121*		*42 - 132*		*08/06/16 00:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*08/06/16 00:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*135*		*46 - 150*		*08/06/16 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.1**		1.0		mg/L			08/13/16 19:37	1
Fluoride	ND		0.10		mg/L			08/13/16 19:37	1
Sulfate	**17**		1.0		mg/L			08/13/16 19:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**35**		1.1		mg/L		08/03/16 14:01	08/05/16 09:29	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:29	1
Magnesium	**32**		1.1		mg/L		08/03/16 14:01	08/05/16 09:29	1
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 09:29	1
Potassium	ND		3.3		mg/L		08/03/16 14:01	08/05/16 09:29	1
Sodium	**11**		2.0		mg/L		08/03/16 14:01	08/05/16 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Arsenic	**0.0036**		0.0010		mg/L		08/03/16 13:26	08/05/16 10:31	1
Barium	**0.015**		0.0012		mg/L		08/03/16 13:26	08/05/16 10:31	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Chromium	**0.0026**		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Copper	**0.0062**		0.0020		mg/L		08/03/16 13:26	08/05/16 10:31	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Nickel	**0.0075**		0.0030		mg/L		08/03/16 13:26	08/05/16 10:31	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 10:31	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 10:31	1
Vanadium	**0.0067**		0.0040		mg/L		08/03/16 13:26	08/05/16 10:31	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 10:31	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-16
Date Collected: 07/26/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**4.9**		0.50		mg/L			08/02/16 14:31	10
Total Organic Carbon	**2.0**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**210**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**210**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**290**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-19
Date Collected: 07/26/16 11:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 21:26	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 21:26	1
Bromomethane	ND		1.0		ug/L			08/03/16 21:26	1
Chloroethane	ND		0.50		ug/L			08/03/16 21:26	1
Trichlorofluoromethane	**5.8**		0.50		ug/L			08/03/16 21:26	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 21:26	1
Methyl iodide	ND		0.50		ug/L			08/03/16 21:26	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 21:26	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 21:26	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 21:26	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 21:26	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 21:26	1
cis-1,2-Dichloroethene	**0.50**		0.20		ug/L			08/03/16 21:26	1
2-Butanone	ND		15		ug/L			08/03/16 21:26	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 21:26	1
Chloroform	ND		0.20		ug/L			08/03/16 21:26	1
1,1,1-Trichloroethane	**0.76**		0.20		ug/L			08/03/16 21:26	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 21:26	1
Benzene	ND		0.20		ug/L			08/03/16 21:26	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 21:26	1
Trichloroethene	**0.27**		0.20		ug/L			08/03/16 21:26	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 21:26	1
Dibromomethane	ND		0.20		ug/L			08/03/16 21:26	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 21:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 21:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 21:26	1
Toluene	ND		0.20		ug/L			08/03/16 21:26	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 21:26	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 21:26	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 21:26	1
2-Hexanone	ND		2.0		ug/L			08/03/16 21:26	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 21:26	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 21:26	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 21:26	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 21:26	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 21:26	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 21:26	1
o-Xylene	ND		0.50		ug/L			08/03/16 21:26	1
Styrene	ND		0.50		ug/L			08/03/16 21:26	1
Bromoform	ND		0.50		ug/L			08/03/16 21:26	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 21:26	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 21:26	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 21:26	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 21:26	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 21:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*08/03/16 21:26*	*1*

Client Sample ID: 0716-19
Date Collected: 07/26/16 11:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*08/03/16 21:26*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/03/16 21:26*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/03/16 21:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*08/03/16 21:26*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 01:26	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/06/16 01:26*	*1*
Trifluorotoluene (Surr)	*93*		*74 - 118*		*08/06/16 01:26*	*1*
Dibromofluoromethane (Surr)	*128*		*42 - 132*		*08/06/16 01:26*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*		*08/06/16 01:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*139*		*46 - 150*		*08/06/16 01:26*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.8**		1.0		mg/L			08/13/16 19:48	1
Fluoride	ND		0.10		mg/L			08/13/16 19:48	1
Sulfate	**350**		20		mg/L			08/16/16 17:29	20

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200**		1.1		mg/L		08/03/16 14:01	08/05/16 09:32	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:32	1
Magnesium	**80**		1.1		mg/L		08/03/16 14:01	08/05/16 09:32	1
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 09:32	1
Potassium	**6.5**		3.3		mg/L		08/03/16 14:01	08/05/16 09:32	1
Sodium	**33**		2.0		mg/L		08/03/16 14:01	08/05/16 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Arsenic	**0.0035**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:07	1
Barium	**0.058**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:07	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Chromium	**0.010**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Copper	**0.0063**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:07	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Nickel	**0.0099**		0.0030		mg/L		08/03/16 13:26	08/05/16 11:07	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:07	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:07	1
Vanadium	**0.0055**		0.0040		mg/L		08/03/16 13:26	08/05/16 11:07	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:07	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-19
Date Collected: 07/26/16 11:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-11
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**8.5**		0.50		mg/L			08/02/16 14:32	10
Total Organic Carbon	**9.6**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**530**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**530**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**1100**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	**17**		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-31
Date Collected: 07/26/16 11:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 21:52	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 21:52	1
Bromomethane	ND		1.0		ug/L			08/03/16 21:52	1
Chloroethane	ND		0.50		ug/L			08/03/16 21:52	1
Trichlorofluoromethane	**5.5**		0.50		ug/L			08/03/16 21:52	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 21:52	1
Methyl iodide	ND		0.50		ug/L			08/03/16 21:52	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 21:52	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 21:52	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 21:52	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 21:52	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 21:52	1
cis-1,2-Dichloroethene	**0.51**		0.20		ug/L			08/03/16 21:52	1
2-Butanone	ND		15		ug/L			08/03/16 21:52	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 21:52	1
Chloroform	ND		0.20		ug/L			08/03/16 21:52	1
1,1,1-Trichloroethane	**0.72**		0.20		ug/L			08/03/16 21:52	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 21:52	1
Benzene	ND		0.20		ug/L			08/03/16 21:52	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 21:52	1
Trichloroethene	**0.33**		0.20		ug/L			08/03/16 21:52	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 21:52	1
Dibromomethane	ND		0.20		ug/L			08/03/16 21:52	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 21:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 21:52	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 21:52	1
Toluene	ND		0.20		ug/L			08/03/16 21:52	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 21:52	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 21:52	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 21:52	1
2-Hexanone	ND		2.0		ug/L			08/03/16 21:52	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 21:52	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 21:52	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 21:52	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 21:52	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 21:52	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 21:52	1
o-Xylene	ND		0.50		ug/L			08/03/16 21:52	1
Styrene	ND		0.50		ug/L			08/03/16 21:52	1
Bromoform	ND		0.50		ug/L			08/03/16 21:52	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 21:52	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 21:52	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 21:52	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 21:52	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 21:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*75 - 125*		*08/03/16 21:52*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-31
Date Collected: 07/26/16 11:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*08/03/16 21:52*	*1*
Dibromofluoromethane (Surr)	*97*		*42 - 132*		*08/03/16 21:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*08/03/16 21:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*08/03/16 21:52*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 01:52	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/06/16 01:52*	*1*
Trifluorotoluene (Surr)	*89*		*74 - 118*		*08/06/16 01:52*	*1*
Dibromofluoromethane (Surr)	*129*		*42 - 132*		*08/06/16 01:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/06/16 01:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*136*		*46 - 150*		*08/06/16 01:52*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.0**		1.0		mg/L			08/13/16 19:59	1
Fluoride	ND		0.10		mg/L			08/13/16 19:59	1
Sulfate	**860**		50		mg/L			08/16/16 17:40	50

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190**		1.1		mg/L		08/03/16 14:01	08/05/16 09:35	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:35	1
Magnesium	**78**		1.1		mg/L		08/03/16 14:01	08/05/16 09:35	1
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 09:35	1
Potassium	**6.3**		3.3		mg/L		08/03/16 14:01	08/05/16 09:35	1
Sodium	**32**		2.0		mg/L		08/03/16 14:01	08/05/16 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Arsenic	**0.0033**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:11	1
Barium	**0.055**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:11	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Chromium	**0.0098**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Copper	**0.0091**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:11	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Nickel	**0.0096**		0.0030		mg/L		08/03/16 13:26	08/05/16 11:11	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:11	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:11	1
Vanadium	**0.0048**		0.0040		mg/L		08/03/16 13:26	08/05/16 11:11	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:11	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-31
Date Collected: 07/26/16 11:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-12
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**8.6**		0.50		mg/L			08/02/16 14:34	10
Total Organic Carbon	**9.6**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**530**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**530**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**1200**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	**17**		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-20
Date Collected: 07/26/16 13:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 22:18	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 22:18	1
Bromomethane	ND		1.0		ug/L			08/03/16 22:18	1
Chloroethane	ND		0.50		ug/L			08/03/16 22:18	1
Trichlorofluoromethane	ND		0.50		ug/L			08/03/16 22:18	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 22:18	1
Methyl iodide	ND		0.50		ug/L			08/03/16 22:18	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 22:18	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 22:18	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 22:18	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 22:18	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 22:18	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 22:18	1
2-Butanone	ND		15		ug/L			08/03/16 22:18	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 22:18	1
Chloroform	ND		0.20		ug/L			08/03/16 22:18	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/03/16 22:18	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 22:18	1
Benzene	ND		0.20		ug/L			08/03/16 22:18	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 22:18	1
Trichloroethene	ND		0.20		ug/L			08/03/16 22:18	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 22:18	1
Dibromomethane	ND		0.20		ug/L			08/03/16 22:18	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 22:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 22:18	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 22:18	1
Toluene	ND		0.20		ug/L			08/03/16 22:18	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 22:18	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 22:18	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 22:18	1
2-Hexanone	ND		2.0		ug/L			08/03/16 22:18	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 22:18	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 22:18	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 22:18	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 22:18	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 22:18	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 22:18	1
o-Xylene	ND		0.50		ug/L			08/03/16 22:18	1
Styrene	ND		0.50		ug/L			08/03/16 22:18	1
Bromoform	ND		0.50		ug/L			08/03/16 22:18	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 22:18	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 22:18	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 22:18	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 22:18	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 22:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*08/03/16 22:18*	*1*

Client Sample ID: 0716-20

Date Collected: 07/26/16 13:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-13

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*08/03/16 22:18*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*08/03/16 22:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/03/16 22:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*08/03/16 22:18*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 02:18	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*08/06/16 02:18*	*1*
Trifluorotoluene (Surr)	*93*		*74 - 118*		*08/06/16 02:18*	*1*
Dibromofluoromethane (Surr)	*119*		*42 - 132*		*08/06/16 02:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/06/16 02:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*		*46 - 150*		*08/06/16 02:18*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36**		1.0		mg/L			08/13/16 20:10	1
Fluoride	ND		0.10		mg/L			08/13/16 20:10	1
Sulfate	**23**		1.0		mg/L			08/13/16 20:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**63**		1.1		mg/L		08/03/16 14:01	08/05/16 09:39	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:39	1
Magnesium	**24**		1.1		mg/L		08/03/16 14:01	08/05/16 09:39	1
Manganese	**0.028**		0.020		mg/L		08/03/16 14:01	08/05/16 09:39	1
Potassium	**5.5**		3.3		mg/L		08/03/16 14:01	08/05/16 09:39	1
Sodium	**20**		2.0		mg/L		08/03/16 14:01	08/05/16 09:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Arsenic	**0.0095**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:16	1
Barium	**0.027**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:16	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Chromium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Copper	**0.0053**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:16	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 11:16	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:16	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:16	1
Vanadium	ND		0.0040		mg/L		08/03/16 13:26	08/05/16 11:16	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:16	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-20
Date Collected: 07/26/16 13:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-13
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 13:38	1
Total Organic Carbon	**1.5**		1.0		mg/L			08/01/16 12:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**380**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client Sample ID: 0716-32
Date Collected: 07/26/16 12:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 22:45	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 22:45	1
Bromomethane	ND		1.0		ug/L			08/03/16 22:45	1
Chloroethane	ND		0.50		ug/L			08/03/16 22:45	1
Trichlorofluoromethane	ND		0.50		ug/L			08/03/16 22:45	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 22:45	1
Methyl iodide	ND		0.50		ug/L			08/03/16 22:45	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 22:45	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 22:45	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 22:45	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 22:45	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 22:45	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 22:45	1
2-Butanone	ND		15		ug/L			08/03/16 22:45	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 22:45	1
Chloroform	ND		0.20		ug/L			08/03/16 22:45	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/03/16 22:45	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 22:45	1
Benzene	ND		0.20		ug/L			08/03/16 22:45	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 22:45	1
Trichloroethene	ND		0.20		ug/L			08/03/16 22:45	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 22:45	1
Dibromomethane	ND		0.20		ug/L			08/03/16 22:45	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 22:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 22:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 22:45	1
Toluene	ND		0.20		ug/L			08/03/16 22:45	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 22:45	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 22:45	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 22:45	1
2-Hexanone	ND		2.0		ug/L			08/03/16 22:45	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 22:45	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 22:45	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 22:45	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 22:45	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 22:45	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 22:45	1
o-Xylene	ND		0.50		ug/L			08/03/16 22:45	1
Styrene	ND		0.50		ug/L			08/03/16 22:45	1
Bromoform	ND		0.50		ug/L			08/03/16 22:45	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 22:45	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 22:45	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 22:45	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 22:45	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 22:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*08/03/16 22:45*	*1*

Client Sample ID: 0716-32
Date Collected: 07/26/16 12:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	*97*		*74 - 118*		*08/03/16 22:45*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/03/16 22:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/03/16 22:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*08/03/16 22:45*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 02:44	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*88*		*75 - 125*		*08/06/16 02:44*	*1*
Trifluorotoluene (Surr)	*87*		*74 - 118*		*08/06/16 02:44*	*1*
Dibromofluoromethane (Surr)	*129*		*42 - 132*		*08/06/16 02:44*	*1*
4-Bromofluorobenzene (Surr)	*111*		*81 - 120*		*08/06/16 02:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*		*46 - 150*		*08/06/16 02:44*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37**		1.0		mg/L			08/13/16 20:43	1
Fluoride	ND		0.10		mg/L			08/13/16 20:43	1
Sulfate	**23**		1.0		mg/L			08/13/16 20:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		08/03/16 14:01	08/05/16 09:48	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:48	1
Magnesium	**26**		1.1		mg/L		08/03/16 14:01	08/05/16 09:48	1
Manganese	**0.029**		0.020		mg/L		08/03/16 14:01	08/05/16 09:48	1
Potassium	**6.0**		3.3		mg/L		08/03/16 14:01	08/05/16 09:48	1
Sodium	**22**		2.0		mg/L		08/03/16 14:01	08/05/16 09:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Arsenic	**0.0093**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:20	1
Barium	**0.025**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:20	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Chromium	**0.00046**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Copper	**0.0043**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:20	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 11:20	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:20	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:20	1
Vanadium	ND		0.0040		mg/L		08/03/16 13:26	08/05/16 11:20	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:20	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-32
Date Collected: 07/26/16 12:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-14
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 13:02	1
Total Organic Carbon	ND		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**260**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**260**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**380**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-21
Date Collected: 07/26/16 13:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 23:11	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 23:11	1
Bromomethane	ND		1.0		ug/L			08/03/16 23:11	1
Chloroethane	ND		0.50		ug/L			08/03/16 23:11	1
Trichlorofluoromethane	**1.2**		0.50		ug/L			08/03/16 23:11	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 23:11	1
Methyl iodide	ND		0.50		ug/L			08/03/16 23:11	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 23:11	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 23:11	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 23:11	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 23:11	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 23:11	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 23:11	1
2-Butanone	ND		15		ug/L			08/03/16 23:11	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 23:11	1
Chloroform	ND		0.20		ug/L			08/03/16 23:11	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/03/16 23:11	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 23:11	1
Benzene	ND		0.20		ug/L			08/03/16 23:11	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 23:11	1
Trichloroethene	ND		0.20		ug/L			08/03/16 23:11	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 23:11	1
Dibromomethane	ND		0.20		ug/L			08/03/16 23:11	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 23:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 23:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 23:11	1
Toluene	ND		0.20		ug/L			08/03/16 23:11	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 23:11	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 23:11	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 23:11	1
2-Hexanone	ND		2.0		ug/L			08/03/16 23:11	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 23:11	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 23:11	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 23:11	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 23:11	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 23:11	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 23:11	1
o-Xylene	ND		0.50		ug/L			08/03/16 23:11	1
Styrene	ND		0.50		ug/L			08/03/16 23:11	1
Bromoform	ND		0.50		ug/L			08/03/16 23:11	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 23:11	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 23:11	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 23:11	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 23:11	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 23:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*08/03/16 23:11*	*1*

Client Sample ID: 0716-21
Date Collected: 07/26/16 13:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*08/03/16 23:11*	*1*
Dibromofluoromethane (Surr)	*97*		*42 - 132*		*08/03/16 23:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*08/03/16 23:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*08/03/16 23:11*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 03:11	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/06/16 03:11*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*08/06/16 03:11*	*1*
Dibromofluoromethane (Surr)	*129*		*42 - 132*		*08/06/16 03:11*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/06/16 03:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*		*46 - 150*		*08/06/16 03:11*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39**		1.0		mg/L			08/13/16 20:54	1
Fluoride	ND		0.10		mg/L			08/13/16 20:54	1
Sulfate	**43**		5.0		mg/L			08/16/16 17:51	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		08/03/16 14:01	08/05/16 09:51	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:51	1
Magnesium	**44**		1.1		mg/L		08/03/16 14:01	08/05/16 09:51	1
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 09:51	1
Potassium	**5.5**		3.3		mg/L		08/03/16 14:01	08/05/16 09:51	1
Sodium	**26**		2.0		mg/L		08/03/16 14:01	08/05/16 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Arsenic	**0.0042**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:25	1
Barium	**0.032**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:25	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Chromium	**0.011**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Copper	**0.0039**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:25	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 11:25	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:25	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:25	1
Vanadium	**0.0073**		0.0040		mg/L		08/03/16 13:26	08/05/16 11:25	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:25	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-21
Date Collected: 07/26/16 13:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-15
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**6.1**		0.50		mg/L			08/02/16 14:35	10
Total Organic Carbon	**1.2**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**480**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**480**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**630**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client Sample ID: 0716-22
Date Collected: 07/26/16 14:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/03/16 23:37	1
Bromomethane	ND		1.0		ug/L			08/03/16 23:37	1
Chloroethane	ND		0.50		ug/L			08/03/16 23:37	1
Trichlorofluoromethane	**2.5**		0.50		ug/L			08/03/16 23:37	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 23:37	1
Methyl iodide	ND		0.50		ug/L			08/03/16 23:37	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 23:37	1
Methylene Chloride	**0.73**		0.50		ug/L			08/03/16 23:37	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 23:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 23:37	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 23:37	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 23:37	1
2-Butanone	ND		15		ug/L			08/03/16 23:37	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 23:37	1
Chloroform	ND		0.20		ug/L			08/03/16 23:37	1
1,1,1-Trichloroethane	**0.42**		0.20		ug/L			08/03/16 23:37	1
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 23:37	1
Benzene	ND		0.20		ug/L			08/03/16 23:37	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 23:37	1
Trichloroethene	ND		0.20		ug/L			08/03/16 23:37	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 23:37	1
Dibromomethane	ND		0.20		ug/L			08/03/16 23:37	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 23:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 23:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 23:37	1
Toluene	ND		0.20		ug/L			08/03/16 23:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 23:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 23:37	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 23:37	1
2-Hexanone	ND		2.0		ug/L			08/03/16 23:37	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 23:37	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 23:37	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 23:37	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 23:37	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 23:37	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 23:37	1
o-Xylene	ND		0.50		ug/L			08/03/16 23:37	1
Styrene	ND		0.50		ug/L			08/03/16 23:37	1
Bromoform	ND		0.50		ug/L			08/03/16 23:37	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 23:37	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 23:37	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 23:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 23:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 23:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*08/03/16 23:37*	*1*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*08/03/16 23:37*	*1*

Client Sample ID: 0716-22
Date Collected: 07/26/16 14:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*08/03/16 23:37*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/03/16 23:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*08/03/16 23:37*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**25**		0.020		ug/L			08/06/16 00:07	1
Acetone	ND		2.0		ug/L			08/06/16 00:07	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/06/16 00:07*	*1*
Trifluorotoluene (Surr)	*86*		*74 - 118*		*08/06/16 00:07*	*1*
Dibromofluoromethane (Surr)	*126*		*42 - 132*		*08/06/16 00:07*	*1*
4-Bromofluorobenzene (Surr)	*110*		*81 - 120*		*08/06/16 00:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*46 - 150*		*08/06/16 00:07*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28**		1.0		mg/L			08/13/16 21:04	1
Fluoride	**0.12**		0.10		mg/L			08/13/16 21:04	1
Sulfate	**60**		5.0		mg/L			08/16/16 18:02	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190**		1.1		mg/L		08/03/16 14:01	08/05/16 09:55	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:55	1
Magnesium	**96**		1.1		mg/L		08/03/16 14:01	08/05/16 09:55	1
Manganese	**0.059**		0.020		mg/L		08/03/16 14:01	08/05/16 09:55	1
Potassium	**8.6**		3.3		mg/L		08/03/16 14:01	08/05/16 09:55	1
Sodium	**37**		2.0		mg/L		08/03/16 14:01	08/05/16 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Arsenic	**0.0039**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:29	1
Barium	**0.045**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:29	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Chromium	**0.00040**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Copper	**0.0042**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:29	1
Lead	**0.00082**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Nickel	**0.0074**		0.0030		mg/L		08/03/16 13:26	08/05/16 11:29	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:29	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:29	1
Vanadium	**0.0078**		0.0040		mg/L		08/03/16 13:26	08/05/16 11:29	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:29	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-22
Date Collected: 07/26/16 14:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-16
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**3.9**		0.25		mg/L			08/02/16 14:36	5
Total Organic Carbon	**2.3**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**900**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**900**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**1000**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-23
Date Collected: 07/26/16 15:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 00:03	1
Bromomethane	ND		1.0		ug/L			08/04/16 00:03	1
Chloroethane	ND		0.50		ug/L			08/04/16 00:03	1
Trichlorofluoromethane	**2.2**		0.50		ug/L			08/04/16 00:03	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 00:03	1
Methyl iodide	ND		0.50		ug/L			08/04/16 00:03	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 00:03	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 00:03	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 00:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 00:03	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 00:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 00:03	1
2-Butanone	ND		15		ug/L			08/04/16 00:03	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 00:03	1
Chloroform	ND		0.20		ug/L			08/04/16 00:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/04/16 00:03	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 00:03	1
Benzene	ND		0.20		ug/L			08/04/16 00:03	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 00:03	1
Trichloroethene	ND		0.20		ug/L			08/04/16 00:03	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 00:03	1
Dibromomethane	ND		0.20		ug/L			08/04/16 00:03	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 00:03	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 00:03	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 00:03	1
Toluene	ND		0.20		ug/L			08/04/16 00:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 00:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 00:03	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 00:03	1
2-Hexanone	ND		2.0		ug/L			08/04/16 00:03	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 00:03	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 00:03	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 00:03	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 00:03	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 00:03	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 00:03	1
o-Xylene	ND		0.50		ug/L			08/04/16 00:03	1
Styrene	ND		0.50		ug/L			08/04/16 00:03	1
Bromoform	ND		0.50		ug/L			08/04/16 00:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 00:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 00:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 00:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 00:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 00:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*75 - 125*		*08/04/16 00:03*	*1*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*08/04/16 00:03*	*1*

Client Sample ID: 0716-23
Date Collected: 07/26/16 15:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*42 - 132*		*08/04/16 00:03*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/04/16 00:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*08/04/16 00:03*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.22**		0.020		ug/L			08/05/16 21:56	1
Acetone	ND		2.0		ug/L			08/05/16 21:56	1
Acrylonitrile	ND		5.0		ug/L			08/05/16 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/05/16 21:56*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*08/05/16 21:56*	*1*
Dibromofluoromethane (Surr)	*117*		*42 - 132*		*08/05/16 21:56*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*08/05/16 21:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*46 - 150*		*08/05/16 21:56*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24**		1.0		mg/L			08/13/16 21:15	1
Fluoride	ND		0.10		mg/L			08/13/16 21:15	1
Sulfate	**61**		5.0		mg/L			08/16/16 18:13	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		08/03/16 14:01	08/05/16 09:58	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 09:58	1
Magnesium	**64**		1.1		mg/L		08/03/16 14:01	08/05/16 09:58	1
Manganese	**0.35**		0.020		mg/L		08/03/16 14:01	08/05/16 09:58	1
Potassium	**7.0**		3.3		mg/L		08/03/16 14:01	08/05/16 09:58	1
Sodium	**30**		2.0		mg/L		08/03/16 14:01	08/05/16 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Arsenic	**0.0031**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:33	1
Barium	**0.055**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:33	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Chromium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Cobalt	**0.00098**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Copper	**0.0042**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:33	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Nickel	**0.0049**		0.0030		mg/L		08/03/16 13:26	08/05/16 11:33	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:33	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:33	1
Vanadium	**0.0040**		0.0040		mg/L		08/03/16 13:26	08/05/16 11:33	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:33	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-23
Date Collected: 07/26/16 15:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-17
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**8.7**		0.50		mg/L			08/02/16 14:37	10
Total Organic Carbon	**1.4**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**640**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**640**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**800**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client Sample ID: 0716-05
Date Collected: 07/26/16 15:30
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 00:29	1
Vinyl chloride	ND		0.020		ug/L			08/04/16 00:29	1
Bromomethane	ND		1.0		ug/L			08/04/16 00:29	1
Chloroethane	ND		0.50		ug/L			08/04/16 00:29	1
Trichlorofluoromethane	ND		0.50		ug/L			08/04/16 00:29	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 00:29	1
Methyl iodide	ND		0.50		ug/L			08/04/16 00:29	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 00:29	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 00:29	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 00:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 00:29	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 00:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 00:29	1
2-Butanone	ND		15		ug/L			08/04/16 00:29	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 00:29	1
Chloroform	ND		0.20		ug/L			08/04/16 00:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/04/16 00:29	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 00:29	1
Benzene	ND		0.20		ug/L			08/04/16 00:29	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 00:29	1
Trichloroethene	ND		0.20		ug/L			08/04/16 00:29	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 00:29	1
Dibromomethane	ND		0.20		ug/L			08/04/16 00:29	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 00:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 00:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 00:29	1
Toluene	ND		0.20		ug/L			08/04/16 00:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 00:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 00:29	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 00:29	1
2-Hexanone	ND		2.0		ug/L			08/04/16 00:29	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 00:29	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 00:29	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 00:29	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 00:29	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 00:29	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 00:29	1
o-Xylene	ND		0.50		ug/L			08/04/16 00:29	1
Styrene	ND		0.50		ug/L			08/04/16 00:29	1
Bromoform	ND		0.50		ug/L			08/04/16 00:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 00:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 00:29	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 00:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 00:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 00:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*08/04/16 00:29*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-05
Date Collected: 07/26/16 15:30
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*08/04/16 00:29*	*1*
Dibromofluoromethane (Surr)	*97*		*42 - 132*		*08/04/16 00:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/04/16 00:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*08/04/16 00:29*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 03:37	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/06/16 03:37*	*1*
Trifluorotoluene (Surr)	*95*		*74 - 118*		*08/06/16 03:37*	*1*
Dibromofluoromethane (Surr)	*123*		*42 - 132*		*08/06/16 03:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/06/16 03:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*135*		*46 - 150*		*08/06/16 03:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36**		1.0		mg/L			08/13/16 21:26	1
Fluoride	**0.15**		0.10		mg/L			08/13/16 21:26	1
Sulfate	**8.8**		1.0		mg/L			08/13/16 21:26	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**40**		1.1		mg/L		08/03/16 14:01	08/05/16 10:01	1
Iron	**0.36**		0.30		mg/L		08/03/16 14:01	08/05/16 10:01	1
Magnesium	**29**		1.1		mg/L		08/03/16 14:01	08/05/16 10:01	1
Manganese	**0.086**		0.020		mg/L		08/03/16 14:01	08/05/16 10:01	1
Potassium	**11**		3.3		mg/L		08/03/16 14:01	08/05/16 10:01	1
Sodium	**20**		2.0		mg/L		08/03/16 14:01	08/05/16 10:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00044**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Arsenic	**0.020**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:38	1
Barium	**0.053**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:38	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Chromium	**0.0015**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Copper	**0.010**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:38	1
Lead	**0.0028**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 11:38	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:38	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:38	1
Vanadium	ND		0.0040		mg/L		08/03/16 13:26	08/05/16 11:38	1
Zinc	**0.62**		0.0070		mg/L		08/03/16 13:26	08/05/16 11:38	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-05
Date Collected: 07/26/16 15:30
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-18
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 13:09	1
Total Organic Carbon	ND		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**320**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-12
Date Collected: 07/26/16 16:20
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-19
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 00:55	1
Vinyl chloride	ND		0.020		ug/L			08/04/16 00:55	1
Bromomethane	ND		1.0		ug/L			08/04/16 00:55	1
Chloroethane	ND		0.50		ug/L			08/04/16 00:55	1
Trichlorofluoromethane	**6.2**		0.50		ug/L			08/04/16 00:55	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 00:55	1
Methyl iodide	ND		0.50		ug/L			08/04/16 00:55	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 00:55	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 00:55	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 00:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 00:55	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 00:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 00:55	1
2-Butanone	ND		15		ug/L			08/04/16 00:55	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 00:55	1
Chloroform	**0.26**		0.20		ug/L			08/04/16 00:55	1
1,1,1-Trichloroethane	**0.68**		0.20		ug/L			08/04/16 00:55	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 00:55	1
Benzene	ND		0.20		ug/L			08/04/16 00:55	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 00:55	1
Trichloroethene	ND		0.20		ug/L			08/04/16 00:55	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 00:55	1
Dibromomethane	ND		0.20		ug/L			08/04/16 00:55	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 00:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 00:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 00:55	1
Toluene	ND		0.20		ug/L			08/04/16 00:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 00:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 00:55	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 00:55	1
2-Hexanone	ND		2.0		ug/L			08/04/16 00:55	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 00:55	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 00:55	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 00:55	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 00:55	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 00:55	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 00:55	1
o-Xylene	ND		0.50		ug/L			08/04/16 00:55	1
Styrene	ND		0.50		ug/L			08/04/16 00:55	1
Bromoform	ND		0.50		ug/L			08/04/16 00:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 00:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 00:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 00:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 00:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 00:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*75 - 125*		*08/04/16 00:55*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-12
Date Collected: 07/26/16 16:20
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-19
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*08/04/16 00:55*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*08/04/16 00:55*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/04/16 00:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*08/04/16 00:55*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 04:03	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*75 - 125*		*08/06/16 04:03*	*1*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*08/06/16 04:03*	*1*
Dibromofluoromethane (Surr)	*122*		*42 - 132*		*08/06/16 04:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/06/16 04:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*136*		*46 - 150*		*08/06/16 04:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		5.0		mg/L			08/16/16 19:40	5
Fluoride	ND	F1	0.10		mg/L			08/13/16 23:04	1
Sulfate	**120**		5.0		mg/L			08/16/16 19:40	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		08/03/16 14:01	08/05/16 10:05	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 10:05	1
Magnesium	**79**		1.1		mg/L		08/03/16 14:01	08/05/16 10:05	1
Manganese	**0.060**		0.020		mg/L		08/03/16 14:01	08/05/16 10:05	1
Potassium	**6.7**		3.3		mg/L		08/03/16 14:01	08/05/16 10:05	1
Sodium	**29**		2.0		mg/L		08/03/16 14:01	08/05/16 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Arsenic	**0.0035**		0.0010		mg/L		08/03/16 13:26	08/05/16 11:42	1
Barium	**0.034**		0.0012		mg/L		08/03/16 13:26	08/05/16 11:42	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Chromium	**0.00057**		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Copper	**0.0036**		0.0020		mg/L		08/03/16 13:26	08/05/16 11:42	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Nickel	**0.0068**		0.0030		mg/L		08/03/16 13:26	08/05/16 11:42	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:42	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 11:42	1
Vanadium	**0.0054**		0.0040		mg/L		08/03/16 13:26	08/05/16 11:42	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 11:42	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-12
Date Collected: 07/26/16 16:20
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-19
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**46**		5.0		mg/L			08/02/16 14:38	100
Total Organic Carbon	**1.7**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**410**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**410**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**880**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-28
Date Collected: 07/26/16 17:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-20
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 01:22	1
Vinyl chloride	ND		0.020		ug/L			08/04/16 01:22	1
Bromomethane	ND		1.0		ug/L			08/04/16 01:22	1
Chloroethane	ND		0.50		ug/L			08/04/16 01:22	1
Trichlorofluoromethane	ND		0.50		ug/L			08/04/16 01:22	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 01:22	1
Methyl iodide	ND		0.50		ug/L			08/04/16 01:22	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 01:22	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 01:22	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 01:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 01:22	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 01:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 01:22	1
2-Butanone	ND		15		ug/L			08/04/16 01:22	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 01:22	1
Chloroform	ND		0.20		ug/L			08/04/16 01:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/04/16 01:22	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 01:22	1
Benzene	ND		0.20		ug/L			08/04/16 01:22	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 01:22	1
Trichloroethene	ND		0.20		ug/L			08/04/16 01:22	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 01:22	1
Dibromomethane	ND		0.20		ug/L			08/04/16 01:22	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 01:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 01:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 01:22	1
Toluene	ND		0.20		ug/L			08/04/16 01:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 01:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 01:22	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 01:22	1
2-Hexanone	ND		2.0		ug/L			08/04/16 01:22	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 01:22	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 01:22	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 01:22	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 01:22	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 01:22	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 01:22	1
o-Xylene	ND		0.50		ug/L			08/04/16 01:22	1
Styrene	ND		0.50		ug/L			08/04/16 01:22	1
Bromoform	ND		0.50		ug/L			08/04/16 01:22	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 01:22	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 01:22	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 01:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 01:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 01:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*75 - 125*		*08/04/16 01:22*	*1*

Client Sample ID: 0716-28
Date Collected: 07/26/16 17:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-20
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*95*		*74 - 118*		*08/04/16 01:22*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*08/04/16 01:22*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/04/16 01:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*08/04/16 01:22*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/06/16 04:29	1
Acrylonitrile	ND		5.0		ug/L			08/06/16 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*08/06/16 04:29*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*08/06/16 04:29*	*1*
Dibromofluoromethane (Surr)	*130*		*42 - 132*		*08/06/16 04:29*	*1*
4-Bromofluorobenzene (Surr)	*110*		*81 - 120*		*08/06/16 04:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*140*		*46 - 150*		*08/06/16 04:29*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74**		5.0		mg/L			08/16/16 19:51	5
Fluoride	**0.16**		0.10		mg/L			08/13/16 23:26	1
Sulfate	**38**		1.0		mg/L			08/13/16 23:26	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65**		1.1		mg/L		08/03/16 14:01	08/05/16 10:08	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 10:08	1
Magnesium	**42**		1.1		mg/L		08/03/16 14:01	08/05/16 10:08	1
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 10:08	1
Potassium	**5.3**		3.3		mg/L		08/03/16 14:01	08/05/16 10:08	1
Sodium	**28**		2.0		mg/L		08/03/16 14:01	08/05/16 10:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Arsenic	**0.0064**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:05	1
Barium	**0.023**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:05	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Chromium	**0.0077**		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Copper	**0.0042**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:05	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 12:05	1
Selenium	**0.0016**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:05	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:05	1
Vanadium	**0.0058**		0.0040		mg/L		08/03/16 13:26	08/05/16 12:05	1
Zinc	**0.0076**		0.0070		mg/L		08/03/16 13:26	08/05/16 12:05	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-28
Date Collected: 07/26/16 17:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-20
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	**1.2**		0.050		mg/L			08/02/16 13:39	1
Total Organic Carbon	**1.6**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**480**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND	F1	10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-10
Date Collected: 07/27/16 10:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-21
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 01:48	1
Vinyl chloride	ND		0.020		ug/L			08/04/16 01:48	1
Bromomethane	ND		1.0		ug/L			08/04/16 01:48	1
Chloroethane	ND		0.50		ug/L			08/04/16 01:48	1
Trichlorofluoromethane	ND		0.50		ug/L			08/04/16 01:48	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 01:48	1
Methyl iodide	ND		0.50		ug/L			08/04/16 01:48	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 01:48	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 01:48	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 01:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 01:48	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 01:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 01:48	1
2-Butanone	ND		15		ug/L			08/04/16 01:48	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 01:48	1
Chloroform	ND		0.20		ug/L			08/04/16 01:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/04/16 01:48	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 01:48	1
Benzene	ND		0.20		ug/L			08/04/16 01:48	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 01:48	1
Trichloroethene	ND		0.20		ug/L			08/04/16 01:48	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 01:48	1
Dibromomethane	ND		0.20		ug/L			08/04/16 01:48	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 01:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 01:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 01:48	1
Toluene	ND		0.20		ug/L			08/04/16 01:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 01:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 01:48	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 01:48	1
2-Hexanone	ND		2.0		ug/L			08/04/16 01:48	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 01:48	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 01:48	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 01:48	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 01:48	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 01:48	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 01:48	1
o-Xylene	ND		0.50		ug/L			08/04/16 01:48	1
Styrene	ND		0.50		ug/L			08/04/16 01:48	1
Bromoform	ND		0.50		ug/L			08/04/16 01:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 01:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 01:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 01:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 01:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 01:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*08/04/16 01:48*	*1*

Client Sample ID: 0716-10

Date Collected: 07/27/16 10:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-21

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*08/04/16 01:48*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/04/16 01:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*08/04/16 01:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*08/04/16 01:48*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/10/16 00:59	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*08/10/16 00:59*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*08/10/16 00:59*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/10/16 00:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*08/10/16 00:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*08/10/16 00:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72**		5.0		mg/L			08/16/16 20:02	5
Fluoride	**0.16**		0.10		mg/L			08/13/16 23:37	1
Sulfate	**30**		1.0		mg/L			08/13/16 23:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		08/03/16 15:12	08/04/16 16:58	1
Iron	**0.32**		0.30		mg/L		08/03/16 15:12	08/04/16 16:58	1
Magnesium	**54**		1.1		mg/L		08/03/16 15:12	08/04/16 16:58	1
Manganese	**0.16**		0.020		mg/L		08/03/16 15:12	08/04/16 16:58	1
Potassium	**7.4**		3.3		mg/L		08/03/16 15:12	08/04/16 16:58	1
Sodium	**37**		2.0		mg/L		08/03/16 15:12	08/04/16 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Arsenic	**0.0090**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:09	1
Barium	**0.040**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:09	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Chromium	**0.00045**		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Copper	**0.0034**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:09	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 12:09	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:09	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:09	1
Vanadium	ND		0.0040		mg/L		08/03/16 13:26	08/05/16 12:09	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 12:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-10
Date Collected: 07/27/16 10:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-21
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 14:39	1
Total Organic Carbon	**2.0**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**520**		10		mg/L			07/30/16 13:19	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-11
Date Collected: 07/27/16 10:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-22
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 02:14	1
Vinyl chloride	ND		0.020		ug/L			08/04/16 02:14	1
Bromomethane	ND		1.0		ug/L			08/04/16 02:14	1
Chloroethane	ND		0.50		ug/L			08/04/16 02:14	1
Trichlorofluoromethane	ND		0.50		ug/L			08/04/16 02:14	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 02:14	1
Methyl iodide	ND		0.50		ug/L			08/04/16 02:14	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 02:14	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 02:14	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 02:14	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 02:14	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 02:14	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 02:14	1
2-Butanone	ND		15		ug/L			08/04/16 02:14	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 02:14	1
Chloroform	ND		0.20		ug/L			08/04/16 02:14	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/04/16 02:14	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 02:14	1
Benzene	ND		0.20		ug/L			08/04/16 02:14	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 02:14	1
Trichloroethene	ND		0.20		ug/L			08/04/16 02:14	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 02:14	1
Dibromomethane	ND		0.20		ug/L			08/04/16 02:14	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 02:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 02:14	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 02:14	1
Toluene	ND		0.20		ug/L			08/04/16 02:14	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 02:14	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 02:14	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 02:14	1
2-Hexanone	ND		2.0		ug/L			08/04/16 02:14	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 02:14	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 02:14	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 02:14	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 02:14	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 02:14	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 02:14	1
o-Xylene	ND		0.50		ug/L			08/04/16 02:14	1
Styrene	ND		0.50		ug/L			08/04/16 02:14	1
Bromoform	ND		0.50		ug/L			08/04/16 02:14	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 02:14	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 02:14	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 02:14	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 02:14	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 02:14	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*08/04/16 02:14*	*1*

Client Sample ID: 0716-11
Date Collected: 07/27/16 10:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-22
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*08/04/16 02:14*	*1*
Dibromofluoromethane (Surr)	*95*		*42 - 132*		*08/04/16 02:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*08/04/16 02:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*08/04/16 02:14*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/10/16 01:25	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*08/10/16 01:25*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*08/10/16 01:25*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*08/10/16 01:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/10/16 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*08/10/16 01:25*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59**		5.0		mg/L			08/16/16 20:13	5
Fluoride	**0.15**		0.10		mg/L			08/13/16 23:48	1
Sulfate	**29**		1.0		mg/L			08/13/16 23:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		08/03/16 15:12	08/04/16 17:01	1
Iron	ND		0.30		mg/L		08/03/16 15:12	08/04/16 17:01	1
Magnesium	**49**		1.1		mg/L		08/03/16 15:12	08/04/16 17:01	1
Manganese	**0.20**		0.020		mg/L		08/03/16 15:12	08/04/16 17:01	1
Potassium	**6.3**		3.3		mg/L		08/03/16 15:12	08/04/16 17:01	1
Sodium	**33**		2.0		mg/L		08/03/16 15:12	08/04/16 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Arsenic	**0.0069**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:14	1
Barium	**0.031**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:14	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Chromium	**0.00044**		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Copper	**0.0029**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:14	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 12:14	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:14	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:14	1
Vanadium	ND		0.0040		mg/L		08/03/16 13:26	08/05/16 12:14	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 12:14	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-11
Date Collected: 07/27/16 10:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-22
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 14:41	1
Total Organic Carbon	**1.9**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**490**		10		mg/L			08/02/16 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client Sample ID: 0716-25
Date Collected: 07/27/16 11:39
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-23
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 02:40	1
Bromomethane	ND		1.0		ug/L			08/04/16 02:40	1
Chloroethane	ND		0.50		ug/L			08/04/16 02:40	1
Trichlorofluoromethane	ND		0.50		ug/L			08/04/16 02:40	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 02:40	1
Methyl iodide	ND		0.50		ug/L			08/04/16 02:40	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 02:40	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 02:40	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 02:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 02:40	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 02:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 02:40	1
2-Butanone	ND		15		ug/L			08/04/16 02:40	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 02:40	1
Chloroform	ND		0.20		ug/L			08/04/16 02:40	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/04/16 02:40	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 02:40	1
Benzene	ND		0.20		ug/L			08/04/16 02:40	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 02:40	1
Trichloroethene	ND		0.20		ug/L			08/04/16 02:40	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 02:40	1
Dibromomethane	ND		0.20		ug/L			08/04/16 02:40	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 02:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 02:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 02:40	1
Toluene	ND		0.20		ug/L			08/04/16 02:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 02:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 02:40	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 02:40	1
2-Hexanone	ND		2.0		ug/L			08/04/16 02:40	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 02:40	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 02:40	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 02:40	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 02:40	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 02:40	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 02:40	1
o-Xylene	ND		0.50		ug/L			08/04/16 02:40	1
Styrene	ND		0.50		ug/L			08/04/16 02:40	1
Bromoform	ND		0.50		ug/L			08/04/16 02:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 02:40	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 02:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 02:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 02:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 02:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*75 - 125*		*08/04/16 02:40*	*1*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*08/04/16 02:40*	*1*

Client Sample ID: 0716-25
Date Collected: 07/27/16 11:39
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-23
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*08/04/16 02:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/04/16 02:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*08/04/16 02:40*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.22**		0.020		ug/L			08/10/16 01:51	1
Acetone	ND		2.0		ug/L			08/10/16 01:51	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*75 - 125*		*08/10/16 01:51*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*08/10/16 01:51*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*08/10/16 01:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/10/16 01:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*08/10/16 01:51*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.0		mg/L			08/16/16 20:23	5
Fluoride	**0.11**		0.10		mg/L			08/13/16 23:59	1
Sulfate	**80**		5.0		mg/L			08/16/16 20:23	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		08/03/16 15:12	08/04/16 17:04	1
Iron	ND		0.30		mg/L		08/03/16 15:12	08/04/16 17:04	1
Magnesium	**110**		1.1		mg/L		08/03/16 15:12	08/04/16 17:04	1
Manganese	**0.041**		0.020		mg/L		08/03/16 15:12	08/04/16 17:04	1
Potassium	**8.8**		3.3		mg/L		08/03/16 15:12	08/04/16 17:04	1
Sodium	**45**		2.0		mg/L		08/03/16 15:12	08/04/16 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Arsenic	**0.0061**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:18	1
Barium	**0.042**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:18	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Chromium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Cobalt	**0.00080**		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Copper	**0.0034**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:18	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Nickel	**0.0062**		0.0030		mg/L		08/03/16 13:26	08/05/16 12:18	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:18	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:18	1
Vanadium	**0.0075**		0.0040		mg/L		08/03/16 13:26	08/05/16 12:18	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 12:18	1

Client Sample ID: 0716-25
Date Collected: 07/27/16 11:39
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-23
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:03	08/04/16 09:40	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 13:15	1
Total Organic Carbon	**1.6**		1.0		mg/L			08/01/16 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**810**		5.0		mg/L			08/02/16 10:11	1
Bicarbonate Alkalinity as CaCO3	**810**		5.0		mg/L			08/02/16 10:11	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:11	1
Total Dissolved Solids	**960**		10		mg/L			08/02/16 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-26
Date Collected: 07/27/16 13:27
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-24
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	*	0.30		ug/L			08/04/16 03:06	1
Vinyl chloride	ND		0.020		ug/L			08/04/16 03:06	1
Bromomethane	ND		1.0		ug/L			08/04/16 03:06	1
Chloroethane	ND		0.50		ug/L			08/04/16 03:06	1
Trichlorofluoromethane	**2.3**		0.50		ug/L			08/04/16 03:06	1
1,1-Dichloroethene	ND		0.10		ug/L			08/04/16 03:06	1
Methyl iodide	ND		0.50		ug/L			08/04/16 03:06	1
Carbon disulfide	ND		0.20		ug/L			08/04/16 03:06	1
Methylene Chloride	ND		0.50		ug/L			08/04/16 03:06	1
Vinyl acetate	ND		1.0		ug/L			08/04/16 03:06	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 03:06	1
1,1-Dichloroethane	ND		0.20		ug/L			08/04/16 03:06	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/04/16 03:06	1
2-Butanone	ND		15		ug/L			08/04/16 03:06	1
Bromochloromethane	ND		0.20		ug/L			08/04/16 03:06	1
Chloroform	ND		0.20		ug/L			08/04/16 03:06	1
1,1,1-Trichloroethane	**0.38**		0.20		ug/L			08/04/16 03:06	1
Carbon tetrachloride	ND		0.20		ug/L			08/04/16 03:06	1
Benzene	ND		0.20		ug/L			08/04/16 03:06	1
1,2-Dichloroethane	ND		0.20		ug/L			08/04/16 03:06	1
Trichloroethene	ND		0.20		ug/L			08/04/16 03:06	1
1,2-Dichloropropane	ND		0.20		ug/L			08/04/16 03:06	1
Dibromomethane	ND		0.20		ug/L			08/04/16 03:06	1
Bromodichloromethane	ND		0.20		ug/L			08/04/16 03:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/04/16 03:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/04/16 03:06	1
Toluene	ND		0.20		ug/L			08/04/16 03:06	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/04/16 03:06	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/04/16 03:06	1
Tetrachloroethene	ND		0.50		ug/L			08/04/16 03:06	1
2-Hexanone	ND		2.0		ug/L			08/04/16 03:06	1
Dibromochloromethane	ND		0.20		ug/L			08/04/16 03:06	1
1,2-Dibromoethane	ND		0.10		ug/L			08/04/16 03:06	1
Chlorobenzene	ND		0.20		ug/L			08/04/16 03:06	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 03:06	1
Ethylbenzene	ND		0.20		ug/L			08/04/16 03:06	1
m,p-Xylene	ND		0.50		ug/L			08/04/16 03:06	1
o-Xylene	ND		0.50		ug/L			08/04/16 03:06	1
Styrene	ND		0.50		ug/L			08/04/16 03:06	1
Bromoform	ND		0.50		ug/L			08/04/16 03:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/04/16 03:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/04/16 03:06	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/04/16 03:06	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/04/16 03:06	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/04/16 03:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/04/16 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*08/04/16 03:06*	*1*

Client Sample ID: 0716-26
Date Collected: 07/27/16 13:27
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-24
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	*97*		*74 - 118*		*08/04/16 03:06*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/04/16 03:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*08/04/16 03:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*08/04/16 03:06*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/10/16 02:18	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*75 - 125*		*08/10/16 02:18*	*1*
Trifluorotoluene (Surr)	*105*		*74 - 118*		*08/10/16 02:18*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*08/10/16 02:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*08/10/16 02:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*08/10/16 02:18*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
2,4-D	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
2,4-DB	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
4-Nitrophenol	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
Dalapon	ND	*	0.41		ug/L		08/03/16 09:48	08/06/16 12:51	1
Dicamba	**1.6**		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
Dichlorprop	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
Dinoseb	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
MCPA	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
Mecoprop	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
Pentachlorophenol	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1
Silvex (2,4,5-TP)	ND		0.26		ug/L		08/03/16 09:48	08/06/16 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*57*		*51 - 150*	*08/03/16 09:48*	*08/06/16 12:51*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94**		5.0		mg/L			08/16/16 20:34	5
Fluoride	ND		0.10		mg/L			08/14/16 00:10	1
Sulfate	**40**		1.0		mg/L			08/14/16 00:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		08/03/16 15:12	08/04/16 17:07	1
Iron	ND		0.30		mg/L		08/03/16 15:12	08/04/16 17:07	1
Magnesium	**47**		1.1		mg/L		08/03/16 15:12	08/04/16 17:07	1
Manganese	ND		0.020		mg/L		08/03/16 15:12	08/04/16 17:07	1
Potassium	**5.9**		3.3		mg/L		08/03/16 15:12	08/04/16 17:07	1
Sodium	**27**		2.0		mg/L		08/03/16 15:12	08/04/16 17:07	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-26
Date Collected: 07/27/16 13:27
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Arsenic	**0.0030**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:22	1
Barium	**0.034**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:22	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Chromium	**0.013**		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Copper	**0.0030**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:22	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Nickel	**0.0033**		0.0030		mg/L		08/03/16 13:26	08/05/16 12:22	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:22	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:22	1
Vanadium	**0.0050**		0.0040		mg/L		08/03/16 13:26	08/05/16 12:22	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/04/16 18:12	08/05/16 09:44	1
Nitrate Nitrite as N	**13**	**F1**	0.50		mg/L			08/02/16 14:44	10
Total Organic Carbon	**1.2**		1.0		mg/L			08/02/16 10:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			08/02/16 10:19	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			08/02/16 10:19	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Total Dissolved Solids	**650**		10		mg/L			08/02/16 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-96
Date Collected: 07/27/16 12:36
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-25
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/10/16 02:43	1
Vinyl chloride	**0.063**		0.020		ug/L			08/10/16 02:43	1
Bromomethane	ND		1.0		ug/L			08/10/16 02:43	1
Chloroethane	ND		0.50		ug/L			08/10/16 02:43	1
Trichlorofluoromethane	ND		0.50		ug/L			08/10/16 02:43	1
1,1-Dichloroethene	ND		0.10		ug/L			08/10/16 02:43	1
Methyl iodide	ND		0.50		ug/L			08/10/16 02:43	1
Carbon disulfide	ND		0.20		ug/L			08/10/16 02:43	1
Acetone	ND		2.0		ug/L			08/10/16 02:43	1
Methylene Chloride	ND		0.50		ug/L			08/10/16 02:43	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 02:43	1
Vinyl acetate	ND		1.0		ug/L			08/10/16 02:43	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 02:43	1
1,1-Dichloroethane	ND		0.20		ug/L			08/10/16 02:43	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 02:43	1
2-Butanone	ND		15		ug/L			08/10/16 02:43	1
Bromochloromethane	ND		0.20		ug/L			08/10/16 02:43	1
Chloroform	ND		0.20		ug/L			08/10/16 02:43	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/10/16 02:43	1
Carbon tetrachloride	ND		0.20		ug/L			08/10/16 02:43	1
Benzene	ND		0.20		ug/L			08/10/16 02:43	1
1,2-Dichloroethane	ND		0.20		ug/L			08/10/16 02:43	1
Trichloroethene	ND		0.20		ug/L			08/10/16 02:43	1
1,2-Dichloropropane	ND		0.20		ug/L			08/10/16 02:43	1
Dibromomethane	ND		0.20		ug/L			08/10/16 02:43	1
Bromodichloromethane	ND		0.20		ug/L			08/10/16 02:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/10/16 02:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/10/16 02:43	1
Toluene	ND		0.20		ug/L			08/10/16 02:43	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/10/16 02:43	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/10/16 02:43	1
Tetrachloroethene	ND		0.50		ug/L			08/10/16 02:43	1
2-Hexanone	ND		2.0		ug/L			08/10/16 02:43	1
Dibromochloromethane	ND		0.20		ug/L			08/10/16 02:43	1
1,2-Dibromoethane	ND		0.10		ug/L			08/10/16 02:43	1
Chlorobenzene	ND		0.20		ug/L			08/10/16 02:43	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 02:43	1
Ethylbenzene	ND		0.20		ug/L			08/10/16 02:43	1
m,p-Xylene	ND		0.50		ug/L			08/10/16 02:43	1
o-Xylene	ND		0.50		ug/L			08/10/16 02:43	1
Styrene	ND		0.50		ug/L			08/10/16 02:43	1
Bromoform	ND		0.50		ug/L			08/10/16 02:43	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 02:43	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/10/16 02:43	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/10/16 02:43	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/10/16 02:43	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/10/16 02:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/10/16 02:43	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-96
Date Collected: 07/27/16 12:36
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-25
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		75 - 125		08/10/16 02:43	1
Trifluorotoluene (Surr)	100		74 - 118		08/10/16 02:43	1
Dibromofluoromethane (Surr)	101		42 - 132		08/10/16 02:43	1
4-Bromofluorobenzene (Surr)	102		81 - 120		08/10/16 02:43	1
1,2-Dichloroethane-d4 (Surr)	105		46 - 150		08/10/16 02:43	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-18
Date Collected: 07/27/16 12:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-26
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/10/16 03:09	1
Vinyl chloride	**0.039**		0.020		ug/L			08/10/16 03:09	1
Bromomethane	ND		1.0		ug/L			08/10/16 03:09	1
Chloroethane	ND		0.50		ug/L			08/10/16 03:09	1
Trichlorofluoromethane	**2.8**		0.50		ug/L			08/10/16 03:09	1
1,1-Dichloroethene	ND		0.10		ug/L			08/10/16 03:09	1
Methyl iodide	ND		0.50		ug/L			08/10/16 03:09	1
Carbon disulfide	ND		0.20		ug/L			08/10/16 03:09	1
Acetone	ND		2.0		ug/L			08/10/16 03:09	1
Methylene Chloride	ND		0.50		ug/L			08/10/16 03:09	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 03:09	1
Vinyl acetate	ND		1.0		ug/L			08/10/16 03:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 03:09	1
1,1-Dichloroethane	**0.87**		0.20		ug/L			08/10/16 03:09	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 03:09	1
2-Butanone	ND		15		ug/L			08/10/16 03:09	1
Bromochloromethane	ND		0.20		ug/L			08/10/16 03:09	1
Chloroform	ND		0.20		ug/L			08/10/16 03:09	1
1,1,1-Trichloroethane	**0.78**		0.20		ug/L			08/10/16 03:09	1
Carbon tetrachloride	ND		0.20		ug/L			08/10/16 03:09	1
Benzene	ND		0.20		ug/L			08/10/16 03:09	1
1,2-Dichloroethane	ND		0.20		ug/L			08/10/16 03:09	1
Trichloroethene	ND		0.20		ug/L			08/10/16 03:09	1
1,2-Dichloropropane	ND		0.20		ug/L			08/10/16 03:09	1
Dibromomethane	ND		0.20		ug/L			08/10/16 03:09	1
Bromodichloromethane	ND		0.20		ug/L			08/10/16 03:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/10/16 03:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/10/16 03:09	1
Toluene	ND		0.20		ug/L			08/10/16 03:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/10/16 03:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/10/16 03:09	1
Tetrachloroethene	ND		0.50		ug/L			08/10/16 03:09	1
2-Hexanone	ND		2.0		ug/L			08/10/16 03:09	1
Dibromochloromethane	ND		0.20		ug/L			08/10/16 03:09	1
1,2-Dibromoethane	ND		0.10		ug/L			08/10/16 03:09	1
Chlorobenzene	ND		0.20		ug/L			08/10/16 03:09	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 03:09	1
Ethylbenzene	ND		0.20		ug/L			08/10/16 03:09	1
m,p-Xylene	ND		0.50		ug/L			08/10/16 03:09	1
o-Xylene	ND		0.50		ug/L			08/10/16 03:09	1
Styrene	ND		0.50		ug/L			08/10/16 03:09	1
Bromoform	ND		0.50		ug/L			08/10/16 03:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 03:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/10/16 03:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/10/16 03:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/10/16 03:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/10/16 03:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/10/16 03:09	1

Client Sample ID: 0716-18

Date Collected: 07/27/16 12:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-26

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*75 - 125*		*08/10/16 03:09*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*08/10/16 03:09*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*08/10/16 03:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*08/10/16 03:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*08/10/16 03:09*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33**		1.0		mg/L			08/14/16 00:21	1
Fluoride	ND		0.10		mg/L			08/14/16 00:21	1
Sulfate	**130**		10		mg/L			08/16/16 20:45	10

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		08/03/16 15:12	08/04/16 17:11	1
Iron	ND		0.30		mg/L		08/03/16 15:12	08/04/16 17:11	1
Magnesium	**96**		1.1		mg/L		08/03/16 15:12	08/04/16 17:11	1
Manganese	ND		0.020		mg/L		08/03/16 15:12	08/04/16 17:11	1
Potassium	**9.7**		3.3		mg/L		08/03/16 15:12	08/04/16 17:11	1
Sodium	**33**		2.0		mg/L		08/03/16 15:12	08/04/16 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Arsenic	**0.0030**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:27	1
Barium	**0.053**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:27	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Chromium	**0.00050**		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Copper	**0.0034**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:27	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Nickel	**0.0058**		0.0030		mg/L		08/03/16 13:26	08/05/16 12:27	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:27	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:27	1
Vanadium	**0.0059**		0.0040		mg/L		08/03/16 13:26	08/05/16 12:27	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/04/16 18:12	08/05/16 09:44	1
Nitrate Nitrite as N	**6.3**		0.50		mg/L			08/02/16 14:49	10
Total Organic Carbon	**2.2**		1.0		mg/L			08/02/16 10:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**740**		5.0		mg/L			08/02/16 10:19	1
Bicarbonate Alkalinity as CaCO3	**740**		5.0		mg/L			08/02/16 10:19	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Total Dissolved Solids	**970**		10		mg/L			08/02/16 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-17
Date Collected: 07/27/16 12:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-27
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/10/16 03:36	1
Vinyl chloride	**0.026**		0.020		ug/L			08/10/16 03:36	1
Bromomethane	ND		1.0		ug/L			08/10/16 03:36	1
Chloroethane	ND		0.50		ug/L			08/10/16 03:36	1
Trichlorofluoromethane	ND		0.50		ug/L			08/10/16 03:36	1
1,1-Dichloroethene	ND		0.10		ug/L			08/10/16 03:36	1
Methyl iodide	ND		0.50		ug/L			08/10/16 03:36	1
Carbon disulfide	ND		0.20		ug/L			08/10/16 03:36	1
Acetone	ND		2.0		ug/L			08/10/16 03:36	1
Methylene Chloride	ND		0.50		ug/L			08/10/16 03:36	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 03:36	1
Vinyl acetate	ND		1.0		ug/L			08/10/16 03:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 03:36	1
1,1-Dichloroethane	ND		0.20		ug/L			08/10/16 03:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 03:36	1
2-Butanone	ND		15		ug/L			08/10/16 03:36	1
Bromochloromethane	ND		0.20		ug/L			08/10/16 03:36	1
Chloroform	ND		0.20		ug/L			08/10/16 03:36	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/10/16 03:36	1
Carbon tetrachloride	ND		0.20		ug/L			08/10/16 03:36	1
Benzene	ND		0.20		ug/L			08/10/16 03:36	1
1,2-Dichloroethane	ND		0.20		ug/L			08/10/16 03:36	1
Trichloroethene	ND		0.20		ug/L			08/10/16 03:36	1
1,2-Dichloropropane	ND		0.20		ug/L			08/10/16 03:36	1
Dibromomethane	ND		0.20		ug/L			08/10/16 03:36	1
Bromodichloromethane	ND		0.20		ug/L			08/10/16 03:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/10/16 03:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/10/16 03:36	1
Toluene	ND		0.20		ug/L			08/10/16 03:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/10/16 03:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/10/16 03:36	1
Tetrachloroethene	ND		0.50		ug/L			08/10/16 03:36	1
2-Hexanone	ND		2.0		ug/L			08/10/16 03:36	1
Dibromochloromethane	ND		0.20		ug/L			08/10/16 03:36	1
1,2-Dibromoethane	ND		0.10		ug/L			08/10/16 03:36	1
Chlorobenzene	ND		0.20		ug/L			08/10/16 03:36	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 03:36	1
Ethylbenzene	ND		0.20		ug/L			08/10/16 03:36	1
m,p-Xylene	ND		0.50		ug/L			08/10/16 03:36	1
o-Xylene	ND		0.50		ug/L			08/10/16 03:36	1
Styrene	ND		0.50		ug/L			08/10/16 03:36	1
Bromoform	ND		0.50		ug/L			08/10/16 03:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 03:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/10/16 03:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/10/16 03:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/10/16 03:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/10/16 03:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/10/16 03:36	1

Client Sample ID: 0716-17

Date Collected: 07/27/16 12:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-27

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*08/10/16 03:36*	*1*
Trifluorotoluene (Surr)	*105*		*74 - 118*		*08/10/16 03:36*	*1*
Dibromofluoromethane (Surr)	*98*		*42 - 132*		*08/10/16 03:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*08/10/16 03:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*08/10/16 03:36*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70**		5.0		mg/L			08/16/16 20:56	5
Fluoride	**0.12**		0.10		mg/L			08/14/16 00:32	1
Sulfate	**66**		5.0		mg/L			08/16/16 20:56	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		08/03/16 15:12	08/04/16 17:14	1
Iron	ND		0.30		mg/L		08/03/16 15:12	08/04/16 17:14	1
Magnesium	**72**		1.1		mg/L		08/03/16 15:12	08/04/16 17:14	1
Manganese	ND		0.020		mg/L		08/03/16 15:12	08/04/16 17:14	1
Potassium	**8.2**		3.3		mg/L		08/03/16 15:12	08/04/16 17:14	1
Sodium	**41**		2.0		mg/L		08/03/16 15:12	08/04/16 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Arsenic	**0.0044**		0.0010		mg/L		08/03/16 13:26	08/05/16 12:31	1
Barium	**0.027**		0.0012		mg/L		08/03/16 13:26	08/05/16 12:31	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Chromium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Copper	**0.0038**		0.0020		mg/L		08/03/16 13:26	08/05/16 12:31	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Nickel	**0.0045**		0.0030		mg/L		08/03/16 13:26	08/05/16 12:31	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:31	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 12:31	1
Vanadium	**0.0043**		0.0040		mg/L		08/03/16 13:26	08/05/16 12:31	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/04/16 18:12	08/05/16 09:44	1
Nitrate Nitrite as N	**2.7**		0.25		mg/L			08/02/16 14:50	5
Total Organic Carbon	**2.1**		1.0		mg/L			08/02/16 10:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**510**		5.0		mg/L			08/02/16 10:19	1
Bicarbonate Alkalinity as CaCO3	**510**		5.0		mg/L			08/02/16 10:19	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Total Dissolved Solids	**670**		10		mg/L			08/02/16 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-29
Date Collected: 07/27/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-28
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/10/16 04:02	1
Vinyl chloride	ND		0.020		ug/L			08/10/16 04:02	1
Bromomethane	ND		1.0		ug/L			08/10/16 04:02	1
Chloroethane	ND		0.50		ug/L			08/10/16 04:02	1
Trichlorofluoromethane	ND		0.50		ug/L			08/10/16 04:02	1
1,1-Dichloroethene	ND		0.10		ug/L			08/10/16 04:02	1
Methyl iodide	ND		0.50		ug/L			08/10/16 04:02	1
Carbon disulfide	ND		0.20		ug/L			08/10/16 04:02	1
Acetone	ND		2.0		ug/L			08/10/16 04:02	1
Methylene Chloride	ND		0.50		ug/L			08/10/16 04:02	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 04:02	1
Vinyl acetate	ND		1.0		ug/L			08/10/16 04:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 04:02	1
1,1-Dichloroethane	ND		0.20		ug/L			08/10/16 04:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 04:02	1
2-Butanone	ND		15		ug/L			08/10/16 04:02	1
Bromochloromethane	ND		0.20		ug/L			08/10/16 04:02	1
Chloroform	ND		0.20		ug/L			08/10/16 04:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/10/16 04:02	1
Carbon tetrachloride	ND		0.20		ug/L			08/10/16 04:02	1
Benzene	ND		0.20		ug/L			08/10/16 04:02	1
1,2-Dichloroethane	ND		0.20		ug/L			08/10/16 04:02	1
Trichloroethene	ND		0.20		ug/L			08/10/16 04:02	1
1,2-Dichloropropane	ND		0.20		ug/L			08/10/16 04:02	1
Dibromomethane	ND		0.20		ug/L			08/10/16 04:02	1
Bromodichloromethane	ND		0.20		ug/L			08/10/16 04:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/10/16 04:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/10/16 04:02	1
Toluene	ND		0.20		ug/L			08/10/16 04:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/10/16 04:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/10/16 04:02	1
Tetrachloroethene	ND		0.50		ug/L			08/10/16 04:02	1
2-Hexanone	ND		2.0		ug/L			08/10/16 04:02	1
Dibromochloromethane	ND		0.20		ug/L			08/10/16 04:02	1
1,2-Dibromoethane	ND		0.10		ug/L			08/10/16 04:02	1
Chlorobenzene	ND		0.20		ug/L			08/10/16 04:02	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 04:02	1
Ethylbenzene	ND		0.20		ug/L			08/10/16 04:02	1
m,p-Xylene	ND		0.50		ug/L			08/10/16 04:02	1
o-Xylene	ND		0.50		ug/L			08/10/16 04:02	1
Styrene	ND		0.50		ug/L			08/10/16 04:02	1
Bromoform	ND		0.50		ug/L			08/10/16 04:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 04:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/10/16 04:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/10/16 04:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/10/16 04:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/10/16 04:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/10/16 04:02	1

Client Sample ID: 0716-29

Date Collected: 07/27/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-28

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*117*		*75 - 125*		*08/10/16 04:02*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*08/10/16 04:02*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*08/10/16 04:02*	*1*
4-Bromofluorobenzene (Surr)	*115*		*81 - 120*		*08/10/16 04:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*08/10/16 04:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55**		5.0		mg/L			08/16/16 21:07	5
Fluoride	**0.16**		0.10		mg/L			08/14/16 00:42	1
Sulfate	**41**		5.0		mg/L			08/16/16 21:07	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		08/03/16 15:12	08/04/16 17:17	1
Iron	**0.31**		0.30		mg/L		08/03/16 15:12	08/04/16 17:17	1
Magnesium	**46**		1.1		mg/L		08/03/16 15:12	08/04/16 17:17	1
Manganese	**0.11**		0.020		mg/L		08/03/16 15:12	08/04/16 17:17	1
Potassium	**5.9**		3.3		mg/L		08/03/16 15:12	08/04/16 17:17	1
Sodium	**31**		2.0		mg/L		08/03/16 15:12	08/04/16 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Arsenic	**0.0058**		0.0010		mg/L		08/03/16 15:12	08/05/16 13:12	1
Barium	**0.028**		0.0012		mg/L		08/03/16 15:12	08/05/16 13:12	1
Beryllium	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Cadmium	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Chromium	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Cobalt	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Copper	**0.0033**		0.0020		mg/L		08/03/16 15:12	08/05/16 13:12	1
Lead	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Nickel	ND		0.0030		mg/L		08/03/16 15:12	08/05/16 13:12	1
Selenium	ND		0.0010		mg/L		08/03/16 15:12	08/05/16 13:12	1
Silver	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Thallium	ND		0.0010		mg/L		08/03/16 15:12	08/05/16 13:12	1
Vanadium	ND		0.0040		mg/L		08/03/16 15:12	08/05/16 13:12	1
Zinc	**0.13**		0.0070		mg/L		08/03/16 15:12	08/05/16 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/04/16 18:12	08/05/16 09:44	1
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 13:41	1
Total Organic Carbon	**1.7**		1.0		mg/L			08/02/16 10:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			08/02/16 10:19	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			08/02/16 10:19	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/02/16 10:19	1
Total Dissolved Solids	**490**		10		mg/L			08/02/16 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: Trip Blank
Date Collected: 07/27/16 00:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-29
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/10/16 00:33	1
Vinyl chloride	ND		0.020		ug/L			08/10/16 00:33	1
Bromomethane	ND		1.0		ug/L			08/10/16 00:33	1
Chloroethane	ND		0.50		ug/L			08/10/16 00:33	1
Trichlorofluoromethane	ND		0.50		ug/L			08/10/16 00:33	1
1,1-Dichloroethene	ND		0.10		ug/L			08/10/16 00:33	1
Methyl iodide	ND		0.50		ug/L			08/10/16 00:33	1
Carbon disulfide	ND		0.20		ug/L			08/10/16 00:33	1
Acetone	ND		2.0		ug/L			08/10/16 00:33	1
Methylene Chloride	ND		0.50		ug/L			08/10/16 00:33	1
Acrylonitrile	ND		5.0		ug/L			08/10/16 00:33	1
Vinyl acetate	ND		1.0		ug/L			08/10/16 00:33	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 00:33	1
1,1-Dichloroethane	ND		0.20		ug/L			08/10/16 00:33	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/10/16 00:33	1
2-Butanone	ND		15		ug/L			08/10/16 00:33	1
Bromochloromethane	ND		0.20		ug/L			08/10/16 00:33	1
Chloroform	ND		0.20		ug/L			08/10/16 00:33	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/10/16 00:33	1
Carbon tetrachloride	ND		0.20		ug/L			08/10/16 00:33	1
Benzene	ND		0.20		ug/L			08/10/16 00:33	1
1,2-Dichloroethane	ND		0.20		ug/L			08/10/16 00:33	1
Trichloroethene	ND		0.20		ug/L			08/10/16 00:33	1
1,2-Dichloropropane	ND		0.20		ug/L			08/10/16 00:33	1
Dibromomethane	ND		0.20		ug/L			08/10/16 00:33	1
Bromodichloromethane	ND		0.20		ug/L			08/10/16 00:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/10/16 00:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/10/16 00:33	1
Toluene	ND		0.20		ug/L			08/10/16 00:33	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/10/16 00:33	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/10/16 00:33	1
Tetrachloroethene	ND		0.50		ug/L			08/10/16 00:33	1
2-Hexanone	ND		2.0		ug/L			08/10/16 00:33	1
Dibromochloromethane	ND		0.20		ug/L			08/10/16 00:33	1
1,2-Dibromoethane	ND		0.10		ug/L			08/10/16 00:33	1
Chlorobenzene	ND		0.20		ug/L			08/10/16 00:33	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 00:33	1
Ethylbenzene	ND		0.20		ug/L			08/10/16 00:33	1
m,p-Xylene	ND		0.50		ug/L			08/10/16 00:33	1
o-Xylene	ND		0.50		ug/L			08/10/16 00:33	1
Styrene	ND		0.50		ug/L			08/10/16 00:33	1
Bromoform	ND		0.50		ug/L			08/10/16 00:33	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/10/16 00:33	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/10/16 00:33	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/10/16 00:33	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/10/16 00:33	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/10/16 00:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/10/16 00:33	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: Trip Blank
Date Collected: 07/27/16 00:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-29
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		75 - 125		08/10/16 00:33	1
Trifluorotoluene (Surr)	99		74 - 118		08/10/16 00:33	1
Dibromofluoromethane (Surr)	100		42 - 132		08/10/16 00:33	1
4-Bromofluorobenzene (Surr)	102		81 - 120		08/10/16 00:33	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		08/10/16 00:33	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-223674/5
Matrix: Water
Analysis Batch: 223674

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/01/16 17:59	1
Vinyl chloride	ND		0.020		ug/L			08/01/16 17:59	1
Bromomethane	ND		1.0		ug/L			08/01/16 17:59	1
Chloroethane	ND		0.50		ug/L			08/01/16 17:59	1
Trichlorofluoromethane	ND		0.50		ug/L			08/01/16 17:59	1
1,1-Dichloroethene	ND		0.10		ug/L			08/01/16 17:59	1
Methyl iodide	ND		0.50		ug/L			08/01/16 17:59	1
Carbon disulfide	ND		0.20		ug/L			08/01/16 17:59	1
Acetone	ND		2.0		ug/L			08/01/16 17:59	1
Methylene Chloride	ND		0.50		ug/L			08/01/16 17:59	1
Acrylonitrile	ND		5.0		ug/L			08/01/16 17:59	1
Vinyl acetate	ND		1.0		ug/L			08/01/16 17:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/01/16 17:59	1
1,1-Dichloroethane	ND		0.20		ug/L			08/01/16 17:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/01/16 17:59	1
2-Butanone	ND		15		ug/L			08/01/16 17:59	1
Bromochloromethane	ND		0.20		ug/L			08/01/16 17:59	1
Chloroform	ND		0.20		ug/L			08/01/16 17:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/01/16 17:59	1
Carbon tetrachloride	ND		0.20		ug/L			08/01/16 17:59	1
Benzene	ND		0.20		ug/L			08/01/16 17:59	1
1,2-Dichloroethane	ND		0.20		ug/L			08/01/16 17:59	1
Trichloroethene	ND		0.20		ug/L			08/01/16 17:59	1
1,2-Dichloropropane	ND		0.20		ug/L			08/01/16 17:59	1
Dibromomethane	ND		0.20		ug/L			08/01/16 17:59	1
Bromodichloromethane	ND		0.20		ug/L			08/01/16 17:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/01/16 17:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/01/16 17:59	1
Toluene	ND		0.20		ug/L			08/01/16 17:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/01/16 17:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/01/16 17:59	1
Tetrachloroethene	ND		0.50		ug/L			08/01/16 17:59	1
2-Hexanone	ND		2.0		ug/L			08/01/16 17:59	1
Dibromochloromethane	ND		0.20		ug/L			08/01/16 17:59	1
1,2-Dibromoethane	ND		0.10		ug/L			08/01/16 17:59	1
Chlorobenzene	ND		0.20		ug/L			08/01/16 17:59	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/01/16 17:59	1
Ethylbenzene	ND		0.20		ug/L			08/01/16 17:59	1
m,p-Xylene	ND		0.50		ug/L			08/01/16 17:59	1
o-Xylene	ND		0.50		ug/L			08/01/16 17:59	1
Styrene	ND		0.50		ug/L			08/01/16 17:59	1
Bromoform	ND		0.50		ug/L			08/01/16 17:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/01/16 17:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/01/16 17:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/01/16 17:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/01/16 17:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/01/16 17:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/01/16 17:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*75 - 125*		*08/01/16 17:59*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*08/01/16 17:59*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*08/01/16 17:59*	*1*
4-Bromofluorobenzene (Surr)	*109*		*81 - 120*		*08/01/16 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*46 - 150*		*08/01/16 17:59*	*1*

Lab Sample ID: LCS 580-223674/6
Matrix: Water
Analysis Batch: 223674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	3.52		ug/L		70	40 - 150
Vinyl chloride	5.00	4.33		ug/L		87	59 - 140
Bromomethane	5.00	5.13		ug/L		103	61 - 135
Chloroethane	5.00	5.79		ug/L		116	58 - 130
Trichlorofluoromethane	5.00	6.35		ug/L		127	60 - 150
1,1-Dichloroethene	5.04	5.01		ug/L		99	64 - 125
Methyl iodide	5.02	5.44		ug/L		108	47 - 145
Carbon disulfide	5.02	5.58		ug/L		111	65 - 128
Acetone	25.0	17.8		ug/L		71	20 - 138
Methylene Chloride	5.02	5.94		ug/L		118	58 - 134
Acrylonitrile	50.0	48.5		ug/L		97	55 - 134
Vinyl acetate	12.5	13.0		ug/L		104	30 - 150
trans-1,2-Dichloroethene	5.01	5.23		ug/L		104	69 - 124
1,1-Dichloroethane	5.00	5.45		ug/L		109	68 - 135
cis-1,2-Dichloroethene	5.01	5.52		ug/L		110	73 - 130
2-Butanone	25.0	25.2		ug/L		101	30 - 150
Bromochloromethane	5.01	5.27		ug/L		105	71 - 131
Chloroform	5.00	5.83		ug/L		117	71 - 130
1,1,1-Trichloroethane	5.02	6.36		ug/L		127	56 - 150
Carbon tetrachloride	5.01	6.45		ug/L		129	54 - 150
Benzene	5.02	5.21		ug/L		104	73 - 120
1,2-Dichloroethane	5.00	5.93		ug/L		119	63 - 150
Trichloroethene	5.01	5.25		ug/L		105	72 - 123
1,2-Dichloropropane	5.00	5.08		ug/L		101	72 - 120
Dibromomethane	5.02	5.42		ug/L		108	65 - 137
Bromodichloromethane	5.02	5.97		ug/L		119	62 - 150
cis-1,3-Dichloropropene	5.01	5.07		ug/L		101	54 - 150
4-Methyl-2-pentanone	25.0	22.9		ug/L		92	36 - 150
Toluene	5.00	5.16		ug/L		103	70 - 126
trans-1,3-Dichloropropene	5.00	5.37		ug/L		107	40 - 150
1,1,2-Trichloroethane	5.02	4.79		ug/L		96	62 - 137
Tetrachloroethene	5.01	5.31		ug/L		106	67 - 123
2-Hexanone	25.0	28.7		ug/L		115	25 - 150
Dibromochloromethane	5.01	5.08		ug/L		102	46 - 150
1,2-Dibromoethane	5.01	4.97		ug/L		99	56 - 146
Chlorobenzene	5.02	5.17		ug/L		103	74 - 114
1,1,1,2-Tetrachloroethane	5.02	5.45		ug/L		108	68 - 139
Ethylbenzene	5.02	5.64		ug/L		112	74 - 125
m,p-Xylene	5.01	5.80		ug/L		116	73 - 130
o-Xylene	5.01	6.16		ug/L		123	80 - 139
Styrene	5.01	5.00		ug/L		100	68 - 136
Bromoform	5.02	5.20		ug/L		104	51 - 137
1,1,2,2-Tetrachloroethane	5.01	5.07		ug/L		101	60 - 134

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-223674/6
Matrix: Water
Analysis Batch: 223674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	5.01	4.85		ug/L		97	45 - 150
trans-1,4-Dichloro-2-butene	5.00	4.57		ug/L		91	20 - 150
1,4-Dichlorobenzene	5.01	5.06		ug/L		101	77 - 120
1,2-Dichlorobenzene	5.00	5.20		ug/L		104	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	4.74		ug/L		95	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*92*		*74 - 118*
Dibromofluoromethane (Surr)	*102*		*42 - 132*
4-Bromofluorobenzene (Surr)	*109*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*

Lab Sample ID: LCSD 580-223674/7
Matrix: Water
Analysis Batch: 223674

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
Chloromethane	5.00	3.21		ug/L		64	40 - 150	9	31
Vinyl chloride	5.00	3.92		ug/L		78	59 - 140	10	30
Bromomethane	5.00	4.65		ug/L		93	61 - 135	10	31
Chloroethane	5.00	4.99		ug/L		100	58 - 130	15	35
Trichlorofluoromethane	5.00	5.78		ug/L		116	60 - 150	9	31
1,1-Dichloroethene	5.04	4.91		ug/L		97	64 - 125	2	28
Methyl iodide	5.02	5.30		ug/L		106	47 - 145	3	35
Carbon disulfide	5.02	5.35		ug/L		107	65 - 128	4	32
Acetone	25.0	20.4		ug/L		81	20 - 138	14	35
Methylene Chloride	5.02	5.55		ug/L		111	58 - 134	7	29
Acrylonitrile	50.0	44.3		ug/L		88	55 - 134	9	35
Vinyl acetate	12.5	12.6		ug/L		101	30 - 150	3	35
trans-1,2-Dichloroethene	5.01	5.22		ug/L		104	69 - 124	0	27
1,1-Dichloroethane	5.00	5.54		ug/L		111	68 - 135	2	27
cis-1,2-Dichloroethene	5.01	5.50		ug/L		110	73 - 130	0	20
2-Butanone	25.0	21.4		ug/L		85	30 - 150	16	35
Bromochloromethane	5.01	5.15		ug/L		103	71 - 131	2	20
Chloroform	5.00	5.78		ug/L		116	71 - 130	1	20
1,1,1-Trichloroethane	5.02	6.15		ug/L		123	56 - 150	3	29
Carbon tetrachloride	5.01	6.26		ug/L		125	54 - 150	3	30
Benzene	5.02	5.19		ug/L		104	73 - 120	0	20
1,2-Dichloroethane	5.00	5.61		ug/L		112	63 - 150	6	29
Trichloroethene	5.01	5.37		ug/L		107	72 - 123	2	20
1,2-Dichloropropane	5.00	5.18		ug/L		103	72 - 120	2	20
Dibromomethane	5.02	5.37		ug/L		107	65 - 137	1	20
Bromodichloromethane	5.02	5.97		ug/L		119	62 - 150	0	20
cis-1,3-Dichloropropene	5.01	4.99		ug/L		100	54 - 150	2	28
4-Methyl-2-pentanone	25.0	24.7		ug/L		99	36 - 150	8	34
Toluene	5.00	5.25		ug/L		105	70 - 126	2	20
trans-1,3-Dichloropropene	5.00	5.62		ug/L		112	40 - 150	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-223674/7
Matrix: Water
Analysis Batch: 223674

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
1,1,2-Trichloroethane			5.02	5.11		ug/L		102	62 - 137	6	30
Tetrachloroethene			5.01	5.29		ug/L		106	67 - 123	0	20
2-Hexanone			25.0	29.0		ug/L		116	25 - 150	1	28
Dibromochloromethane			5.01	5.55		ug/L		111	46 - 150	9	20
1,2-Dibromoethane			5.01	5.22		ug/L		104	56 - 146	5	20
Chlorobenzene			5.02	5.32		ug/L		106	74 - 114	3	12
1,1,1,2-Tetrachloroethane			5.02	5.62		ug/L		112	68 - 139	3	20
Ethylbenzene			5.02	5.84		ug/L		116	74 - 125	3	20
m,p-Xylene			5.01	5.93		ug/L		118	73 - 130	2	20
o-Xylene			5.01	6.12		ug/L		122	80 - 139	1	20
Styrene			5.01	5.14		ug/L		103	68 - 136	3	20
Bromoform			5.02	5.67		ug/L		113	51 - 137	9	20
1,1,2,2-Tetrachloroethane			5.01	5.44		ug/L		109	60 - 134	7	25
1,2,3-Trichloropropane			5.01	5.44		ug/L		109	45 - 150	11	20
trans-1,4-Dichloro-2-butene			5.00	5.18		ug/L		104	20 - 150	13	20
1,4-Dichlorobenzene			5.01	5.53		ug/L		110	77 - 120	9	11
1,2-Dichlorobenzene			5.00	5.57		ug/L		111	73 - 120	7	14
1,2-Dibromo-3-Chloropropane			5.01	5.24		ug/L		105	34 - 150	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*98*		*74 - 118*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Lab Sample ID: MB 580-223900/5
Matrix: Water
Analysis Batch: 223900

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/03/16 17:57	1
Vinyl chloride	ND		0.020		ug/L			08/03/16 17:57	1
Bromomethane	ND		1.0		ug/L			08/03/16 17:57	1
Chloroethane	ND		0.50		ug/L			08/03/16 17:57	1
Trichlorofluoromethane	ND		0.50		ug/L			08/03/16 17:57	1
1,1-Dichloroethene	ND		0.10		ug/L			08/03/16 17:57	1
Methyl iodide	ND		0.50		ug/L			08/03/16 17:57	1
Carbon disulfide	ND		0.20		ug/L			08/03/16 17:57	1
Methylene Chloride	ND		0.50		ug/L			08/03/16 17:57	1
Vinyl acetate	ND		1.0		ug/L			08/03/16 17:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 17:57	1
1,1-Dichloroethane	ND		0.20		ug/L			08/03/16 17:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/03/16 17:57	1
2-Butanone	ND		15		ug/L			08/03/16 17:57	1
Bromochloromethane	ND		0.20		ug/L			08/03/16 17:57	1
Chloroform	ND		0.20		ug/L			08/03/16 17:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/03/16 17:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-223900/5
Matrix: Water
Analysis Batch: 223900

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20		ug/L			08/03/16 17:57	1
Benzene	ND		0.20		ug/L			08/03/16 17:57	1
1,2-Dichloroethane	ND		0.20		ug/L			08/03/16 17:57	1
Trichloroethene	ND		0.20		ug/L			08/03/16 17:57	1
1,2-Dichloropropane	ND		0.20		ug/L			08/03/16 17:57	1
Dibromomethane	ND		0.20		ug/L			08/03/16 17:57	1
Bromodichloromethane	ND		0.20		ug/L			08/03/16 17:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/03/16 17:57	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/03/16 17:57	1
Toluene	ND		0.20		ug/L			08/03/16 17:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/03/16 17:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/03/16 17:57	1
Tetrachloroethene	ND		0.50		ug/L			08/03/16 17:57	1
2-Hexanone	ND		2.0		ug/L			08/03/16 17:57	1
Dibromochloromethane	ND		0.20		ug/L			08/03/16 17:57	1
1,2-Dibromoethane	ND		0.10		ug/L			08/03/16 17:57	1
Chlorobenzene	ND		0.20		ug/L			08/03/16 17:57	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 17:57	1
Ethylbenzene	ND		0.20		ug/L			08/03/16 17:57	1
m,p-Xylene	ND		0.50		ug/L			08/03/16 17:57	1
o-Xylene	ND		0.50		ug/L			08/03/16 17:57	1
Styrene	ND		0.50		ug/L			08/03/16 17:57	1
Bromoform	ND		0.50		ug/L			08/03/16 17:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/03/16 17:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/03/16 17:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/03/16 17:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/03/16 17:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/03/16 17:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/03/16 17:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*75 - 125*		*08/03/16 17:57*	*1*
Trifluorotoluene (Surr)	*94*		*74 - 118*		*08/03/16 17:57*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*08/03/16 17:57*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*08/03/16 17:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*08/03/16 17:57*	*1*

Lab Sample ID: LCS 580-223900/6
Matrix: Water
Analysis Batch: 223900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	1.96	*	ug/L		39	40 - 150
Vinyl chloride	5.00	3.17		ug/L		63	59 - 140
Bromomethane	5.00	4.15		ug/L		83	61 - 135
Chloroethane	5.00	4.75		ug/L		95	58 - 130
Trichlorofluoromethane	5.00	5.20		ug/L		104	60 - 150
1,1-Dichloroethene	5.04	5.01		ug/L		99	64 - 125

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-223900/6
Matrix: Water
Analysis Batch: 223900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl iodide	5.02	5.07		ug/L		101	47 - 145
Carbon disulfide	5.02	5.30		ug/L		105	65 - 128
Methylene Chloride	5.02	5.47		ug/L		109	58 - 134
Vinyl acetate	12.5	15.7		ug/L		125	30 - 150
trans-1,2-Dichloroethene	5.01	5.25		ug/L		105	69 - 124
1,1-Dichloroethane	5.00	4.65		ug/L		93	68 - 135
cis-1,2-Dichloroethene	5.01	5.47		ug/L		109	73 - 130
2-Butanone	25.0	29.8		ug/L		119	30 - 150
Bromochloromethane	5.01	4.67		ug/L		93	71 - 131
Chloroform	5.00	5.54		ug/L		111	71 - 130
1,1,1-Trichloroethane	5.02	5.76		ug/L		115	56 - 150
Carbon tetrachloride	5.01	5.78		ug/L		115	54 - 150
Benzene	5.02	5.77		ug/L		115	73 - 120
1,2-Dichloroethane	5.00	5.26		ug/L		105	63 - 150
Trichloroethene	5.01	5.64		ug/L		113	72 - 123
1,2-Dichloropropane	5.00	4.61		ug/L		92	72 - 120
Dibromomethane	5.02	5.71		ug/L		114	65 - 137
Bromodichloromethane	5.02	6.03		ug/L		120	62 - 150
cis-1,3-Dichloropropene	5.01	5.32		ug/L		106	54 - 150
4-Methyl-2-pentanone	25.0	16.5		ug/L		66	36 - 150
Toluene	5.00	5.21		ug/L		104	70 - 126
trans-1,3-Dichloropropene	5.00	5.83		ug/L		116	40 - 150
1,1,2-Trichloroethane	5.02	5.12		ug/L		102	62 - 137
Tetrachloroethene	5.01	5.32		ug/L		106	67 - 123
2-Hexanone	25.0	19.7		ug/L		79	25 - 150
Dibromochloromethane	5.01	4.82		ug/L		96	46 - 150
1,2-Dibromoethane	5.01	5.08		ug/L		101	56 - 146
Chlorobenzene	5.02	5.06		ug/L		101	74 - 114
1,1,1,2-Tetrachloroethane	5.02	4.81		ug/L		96	68 - 139
Ethylbenzene	5.02	5.54		ug/L		110	74 - 125
m,p-Xylene	5.01	5.66		ug/L		113	73 - 130
o-Xylene	5.01	5.52		ug/L		110	80 - 139
Styrene	5.01	4.96		ug/L		99	68 - 136
Bromoform	5.02	4.72		ug/L		94	51 - 137
1,1,2,2-Tetrachloroethane	5.01	5.25		ug/L		105	60 - 134
1,2,3-Trichloropropane	5.01	5.07		ug/L		101	45 - 150
trans-1,4-Dichloro-2-butene	5.00	3.75		ug/L		75	20 - 150
1,4-Dichlorobenzene	5.01	4.91		ug/L		98	77 - 120
1,2-Dichlorobenzene	5.00	5.02		ug/L		100	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	4.48		ug/L		89	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*74 - 118*
Dibromofluoromethane (Surr)	*92*		*42 - 132*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*46 - 150*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-223900/7
Matrix: Water
Analysis Batch: 223900

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
Chloromethane	5.00	1.94	*	ug/L		39	40 - 150	1	31
Vinyl chloride	5.00	3.11		ug/L		62	59 - 140	2	30
Bromomethane	5.00	4.32		ug/L		86	61 - 135	4	31
Chloroethane	5.00	4.48		ug/L		90	58 - 130	6	35
Trichlorofluoromethane	5.00	5.09		ug/L		102	60 - 150	2	31
1,1-Dichloroethene	5.04	5.07		ug/L		101	64 - 125	1	28
Methyl iodide	5.02	5.08		ug/L		101	47 - 145	0	35
Carbon disulfide	5.02	5.48		ug/L		109	65 - 128	3	32
Methylene Chloride	5.02	5.52		ug/L		110	58 - 134	1	29
Vinyl acetate	12.5	14.8		ug/L		119	30 - 150	6	35
trans-1,2-Dichloroethene	5.01	5.36		ug/L		107	69 - 124	2	27
1,1-Dichloroethane	5.00	4.69		ug/L		94	68 - 135	1	27
cis-1,2-Dichloroethene	5.01	5.49		ug/L		110	73 - 130	0	20
2-Butanone	25.0	29.2		ug/L		117	30 - 150	2	35
Bromochloromethane	5.01	4.98		ug/L		99	71 - 131	6	20
Chloroform	5.00	5.52		ug/L		110	71 - 130	0	20
1,1,1-Trichloroethane	5.02	5.65		ug/L		113	56 - 150	2	29
Carbon tetrachloride	5.01	5.87		ug/L		117	54 - 150	2	30
Benzene	5.02	5.75		ug/L		115	73 - 120	0	20
1,2-Dichloroethane	5.00	5.22		ug/L		104	63 - 150	1	29
Trichloroethene	5.01	5.41		ug/L		108	72 - 123	4	20
1,2-Dichloropropane	5.00	4.69		ug/L		94	72 - 120	2	20
Dibromomethane	5.02	5.57		ug/L		111	65 - 137	3	20
Bromodichloromethane	5.02	5.95		ug/L		119	62 - 150	1	20
cis-1,3-Dichloropropene	5.01	5.34		ug/L		107	54 - 150	0	28
4-Methyl-2-pentanone	25.0	16.5		ug/L		66	36 - 150	0	34
Toluene	5.00	5.07		ug/L		101	70 - 126	3	20
trans-1,3-Dichloropropene	5.00	5.76		ug/L		115	40 - 150	1	30
1,1,2-Trichloroethane	5.02	5.02		ug/L		100	62 - 137	2	30
Tetrachloroethene	5.01	5.02		ug/L		100	67 - 123	6	20
2-Hexanone	25.0	19.7		ug/L		79	25 - 150	0	28
Dibromochloromethane	5.01	4.91		ug/L		98	46 - 150	2	20
1,2-Dibromoethane	5.01	5.05		ug/L		101	56 - 146	1	20
Chlorobenzene	5.02	5.06		ug/L		101	74 - 114	0	12
1,1,1,2-Tetrachloroethane	5.02	4.92		ug/L		98	68 - 139	2	20
Ethylbenzene	5.02	5.52		ug/L		110	74 - 125	0	20
m,p-Xylene	5.01	5.71		ug/L		114	73 - 130	1	20
o-Xylene	5.01	5.54		ug/L		111	80 - 139	0	20
Styrene	5.01	5.05		ug/L		101	68 - 136	2	20
Bromoform	5.02	4.90		ug/L		98	51 - 137	4	20
1,1,2,2-Tetrachloroethane	5.01	5.26		ug/L		105	60 - 134	0	25
1,2,3-Trichloropropane	5.01	5.25		ug/L		105	45 - 150	3	20
trans-1,4-Dichloro-2-butene	5.00	3.93		ug/L		79	20 - 150	5	20
1,4-Dichlorobenzene	5.01	4.93		ug/L		98	77 - 120	0	11
1,2-Dichlorobenzene	5.00	4.87		ug/L		97	73 - 120	3	14
1,2-Dibromo-3-Chloropropane	5.01	4.43		ug/L		88	34 - 150	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-223900/7
Matrix: Water
Analysis Batch: 223900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*75 - 125*
Trifluorotoluene (Surr)	*98*		*74 - 118*
Dibromofluoromethane (Surr)	*93*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*46 - 150*

Lab Sample ID: MB 580-224049/6
Matrix: Water
Analysis Batch: 224049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			08/05/16 18:54	1
Acetone	ND		2.0		ug/L			08/05/16 18:54	1
Acrylonitrile	ND		5.0		ug/L			08/05/16 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*75 - 125*		*08/05/16 18:54*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*08/05/16 18:54*	*1*
Dibromofluoromethane (Surr)	*118*		*42 - 132*		*08/05/16 18:54*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*08/05/16 18:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*46 - 150*		*08/05/16 18:54*	*1*

Lab Sample ID: LCS 580-224049/7
Matrix: Water
Analysis Batch: 224049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride			5.00	4.38		ug/L		88	59 - 140		
Acetone			25.0	22.8		ug/L		91	20 - 138		
Acrylonitrile			50.0	48.8		ug/L		98	55 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*75 - 125*
Trifluorotoluene (Surr)	*88*		*74 - 118*
Dibromofluoromethane (Surr)	*113*		*42 - 132*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*123*		*46 - 150*

Lab Sample ID: LCSD 580-224049/8
Matrix: Water
Analysis Batch: 224049

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
Vinyl chloride			5.00	4.49		ug/L		90	59 - 140	2	30
Acetone			25.0	23.7		ug/L		95	20 - 138	4	35
Acrylonitrile			50.0	47.7		ug/L		95	55 - 134	2	35

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-224049/8
Matrix: Water
Analysis Batch: 224049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*75 - 125*
Trifluorotoluene (Surr)	*89*		*74 - 118*
Dibromofluoromethane (Surr)	*117*		*42 - 132*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*118*		*46 - 150*

Lab Sample ID: MB 580-224475/5
Matrix: Water
Analysis Batch: 224475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			08/09/16 19:43	1
Vinyl chloride	ND		0.020		ug/L			08/09/16 19:43	1
Bromomethane	ND		1.0		ug/L			08/09/16 19:43	1
Chloroethane	ND		0.50		ug/L			08/09/16 19:43	1
Trichlorofluoromethane	ND		0.50		ug/L			08/09/16 19:43	1
1,1-Dichloroethene	ND		0.10		ug/L			08/09/16 19:43	1
Methyl iodide	ND		0.50		ug/L			08/09/16 19:43	1
Carbon disulfide	ND		0.20		ug/L			08/09/16 19:43	1
Acetone	ND		2.0		ug/L			08/09/16 19:43	1
Methylene Chloride	ND		0.50		ug/L			08/09/16 19:43	1
Acrylonitrile	ND		5.0		ug/L			08/09/16 19:43	1
Vinyl acetate	ND		1.0		ug/L			08/09/16 19:43	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/09/16 19:43	1
1,1-Dichloroethane	ND		0.20		ug/L			08/09/16 19:43	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/09/16 19:43	1
2-Butanone	ND		15		ug/L			08/09/16 19:43	1
Bromochloromethane	ND		0.20		ug/L			08/09/16 19:43	1
Chloroform	ND		0.20		ug/L			08/09/16 19:43	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/09/16 19:43	1
Carbon tetrachloride	ND		0.20		ug/L			08/09/16 19:43	1
Benzene	ND		0.20		ug/L			08/09/16 19:43	1
1,2-Dichloroethane	ND		0.20		ug/L			08/09/16 19:43	1
Trichloroethene	ND		0.20		ug/L			08/09/16 19:43	1
1,2-Dichloropropane	ND		0.20		ug/L			08/09/16 19:43	1
Dibromomethane	ND		0.20		ug/L			08/09/16 19:43	1
Bromodichloromethane	ND		0.20		ug/L			08/09/16 19:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			08/09/16 19:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			08/09/16 19:43	1
Toluene	ND		0.20		ug/L			08/09/16 19:43	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/09/16 19:43	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/09/16 19:43	1
Tetrachloroethene	ND		0.50		ug/L			08/09/16 19:43	1
2-Hexanone	ND		2.0		ug/L			08/09/16 19:43	1
Dibromochloromethane	ND		0.20		ug/L			08/09/16 19:43	1
1,2-Dibromoethane	ND		0.10		ug/L			08/09/16 19:43	1
Chlorobenzene	ND		0.20		ug/L			08/09/16 19:43	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			08/09/16 19:43	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-224475/5
Matrix: Water
Analysis Batch: 224475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.20		ug/L			08/09/16 19:43	1
m,p-Xylene	ND		0.50		ug/L			08/09/16 19:43	1
o-Xylene	ND		0.50		ug/L			08/09/16 19:43	1
Styrene	ND		0.50		ug/L			08/09/16 19:43	1
Bromoform	ND		0.50		ug/L			08/09/16 19:43	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/09/16 19:43	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/09/16 19:43	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/09/16 19:43	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/09/16 19:43	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/09/16 19:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/09/16 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*08/09/16 19:43*	*1*
Trifluorotoluene (Surr)	*107*		*74 - 118*		*08/09/16 19:43*	*1*
Dibromofluoromethane (Surr)	*91*		*42 - 132*		*08/09/16 19:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*08/09/16 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*46 - 150*		*08/09/16 19:43*	*1*

Lab Sample ID: LCS 580-224475/6
Matrix: Water
Analysis Batch: 224475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.68		ug/L		114	40 - 150
Vinyl chloride	5.00	4.92		ug/L		98	59 - 140
Bromomethane	5.00	5.06		ug/L		101	61 - 135
Chloroethane	5.00	5.57		ug/L		111	58 - 130
Trichlorofluoromethane	5.00	4.72		ug/L		94	60 - 150
1,1-Dichloroethene	5.04	5.28		ug/L		105	64 - 125
Methyl iodide	5.02	5.23		ug/L		104	47 - 145
Carbon disulfide	5.02	5.11		ug/L		102	65 - 128
Acetone	25.0	20.2		ug/L		81	20 - 138
Methylene Chloride	5.02	5.07		ug/L		101	58 - 134
Acrylonitrile	50.0	51.5		ug/L		103	55 - 134
Vinyl acetate	12.5	12.8		ug/L		103	30 - 150
trans-1,2-Dichloroethene	5.01	5.00		ug/L		100	69 - 124
1,1-Dichloroethane	5.00	4.93		ug/L		99	68 - 135
cis-1,2-Dichloroethene	5.01	4.99		ug/L		100	73 - 130
2-Butanone	25.0	29.6		ug/L		119	30 - 150
Bromochloromethane	5.01	4.71		ug/L		94	71 - 131
Chloroform	5.00	4.87		ug/L		97	71 - 130
1,1,1-Trichloroethane	5.02	4.75		ug/L		95	56 - 150
Carbon tetrachloride	5.01	4.79		ug/L		96	54 - 150
Benzene	5.02	5.10		ug/L		102	73 - 120
1,2-Dichloroethane	5.00	4.96		ug/L		99	63 - 150
Trichloroethene	5.01	4.97		ug/L		99	72 - 123
1,2-Dichloropropane	5.00	4.97		ug/L		99	72 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-224475/6
Matrix: Water
Analysis Batch: 224475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dibromomethane			5.02	5.70		ug/L		114	65 - 137		
Bromodichloromethane			5.02	4.75		ug/L		95	62 - 150		
cis-1,3-Dichloropropene			5.01	5.39		ug/L		107	54 - 150		
4-Methyl-2-pentanone			25.0	24.7		ug/L		99	36 - 150		
Toluene			5.00	5.00		ug/L		100	70 - 126		
trans-1,3-Dichloropropene			5.00	5.13		ug/L		103	40 - 150		
1,1,2-Trichloroethane			5.02	4.95		ug/L		99	62 - 137		
Tetrachloroethene			5.01	5.04		ug/L		101	67 - 123		
2-Hexanone			25.0	27.0		ug/L		108	25 - 150		
Dibromochloromethane			5.01	4.64		ug/L		93	46 - 150		
1,2-Dibromoethane			5.01	4.82		ug/L		96	56 - 146		
Chlorobenzene			5.02	5.32		ug/L		106	74 - 114		
1,1,1,2-Tetrachloroethane			5.02	4.63		ug/L		92	68 - 139		
Ethylbenzene			5.02	5.25		ug/L		105	74 - 125		
m,p-Xylene			5.01	5.24		ug/L		105	73 - 130		
o-Xylene			5.01	5.33		ug/L		106	80 - 139		
Styrene			5.01	4.79		ug/L		96	68 - 136		
Bromoform			5.02	4.48		ug/L		89	51 - 137		
1,1,2,2-Tetrachloroethane			5.01	5.14		ug/L		103	60 - 134		
1,2,3-Trichloropropane			5.01	4.96		ug/L		99	45 - 150		
trans-1,4-Dichloro-2-butene			5.00	5.00		ug/L		100	20 - 150		
1,4-Dichlorobenzene			5.01	5.14		ug/L		103	77 - 120		
1,2-Dichlorobenzene			5.00	5.23		ug/L		104	73 - 120		
1,2-Dibromo-3-Chloropropane			5.01	4.99		ug/L		100	34 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*94*		*42 - 132*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*46 - 150*

Lab Sample ID: LCSD 580-224475/7
Matrix: Water
Analysis Batch: 224475

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
Chloromethane			5.00	5.48		ug/L		110	40 - 150	4	31
Vinyl chloride			5.00	4.76		ug/L		95	59 - 140	3	30
Bromomethane			5.00	4.94		ug/L		99	61 - 135	2	31
Chloroethane			5.00	5.23		ug/L		105	58 - 130	6	35
Trichlorofluoromethane			5.00	4.60		ug/L		92	60 - 150	3	31
1,1-Dichloroethene			5.04	4.94		ug/L		98	64 - 125	7	28
Methyl iodide			5.02	5.12		ug/L		102	47 - 145	2	35
Carbon disulfide			5.02	4.99		ug/L		99	65 - 128	2	32
Acetone			25.0	22.4		ug/L		89	20 - 138	10	35
Methylene Chloride			5.02	5.23		ug/L		104	58 - 134	3	29
Acrylonitrile			50.0	53.0		ug/L		106	55 - 134	3	35

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-224475/7
Matrix: Water
Analysis Batch: 224475

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
Vinyl acetate			12.5	12.3		ug/L		99	30 - 150	4	35
trans-1,2-Dichloroethene			5.01	5.08		ug/L		101	69 - 124	2	27
1,1-Dichloroethane			5.00	4.86		ug/L		97	68 - 135	2	27
cis-1,2-Dichloroethene			5.01	4.97		ug/L		99	73 - 130	0	20
2-Butanone			25.0	30.8		ug/L		123	30 - 150	4	35
Bromochloromethane			5.01	4.81		ug/L		96	71 - 131	2	20
Chloroform			5.00	4.79		ug/L		96	71 - 130	2	20
1,1,1-Trichloroethane			5.02	4.56		ug/L		91	56 - 150	4	29
Carbon tetrachloride			5.01	4.65		ug/L		93	54 - 150	3	30
Benzene			5.02	5.02		ug/L		100	73 - 120	2	20
1,2-Dichloroethane			5.00	5.00		ug/L		100	63 - 150	1	29
Trichloroethene			5.01	4.96		ug/L		99	72 - 123	0	20
1,2-Dichloropropane			5.00	5.23		ug/L		104	72 - 120	5	20
Dibromomethane			5.02	5.37		ug/L		107	65 - 137	6	20
Bromodichloromethane			5.02	4.60		ug/L		92	62 - 150	3	20
cis-1,3-Dichloropropene			5.01	5.18		ug/L		103	54 - 150	4	28
4-Methyl-2-pentanone			25.0	25.9		ug/L		104	36 - 150	5	34
Toluene			5.00	4.95		ug/L		99	70 - 126	1	20
trans-1,3-Dichloropropene			5.00	5.22		ug/L		104	40 - 150	2	30
1,1,2-Trichloroethane			5.02	4.94		ug/L		98	62 - 137	0	30
Tetrachloroethene			5.01	4.97		ug/L		99	67 - 123	1	20
2-Hexanone			25.0	30.1		ug/L		120	25 - 150	11	28
Dibromochloromethane			5.01	4.66		ug/L		93	46 - 150	0	20
1,2-Dibromoethane			5.01	4.83		ug/L		96	56 - 146	0	20
Chlorobenzene			5.02	5.41		ug/L		108	74 - 114	2	12
1,1,1,2-Tetrachloroethane			5.02	4.70		ug/L		94	68 - 139	2	20
Ethylbenzene			5.02	5.35		ug/L		107	74 - 125	2	20
m,p-Xylene			5.01	5.34		ug/L		107	73 - 130	2	20
o-Xylene			5.01	5.38		ug/L		108	80 - 139	1	20
Styrene			5.01	5.02		ug/L		100	68 - 136	5	20
Bromoform			5.02	4.59		ug/L		92	51 - 137	2	20
1,1,2,2-Tetrachloroethane			5.01	4.95		ug/L		99	60 - 134	4	25
1,2,3-Trichloropropane			5.01	4.64		ug/L		93	45 - 150	7	20
trans-1,4-Dichloro-2-butene			5.00	4.97		ug/L		99	20 - 150	1	20
1,4-Dichlorobenzene			5.01	5.18		ug/L		103	77 - 120	1	11
1,2-Dichlorobenzene			5.00	4.96		ug/L		99	73 - 120	5	14
1,2-Dibromo-3-Chloropropane			5.01	4.46		ug/L		89	34 - 150	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*95*		*74 - 118*
Dibromofluoromethane (Surr)	*92*		*42 - 132*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*46 - 150*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-223876/1-A
Matrix: Water
Analysis Batch: 224246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
2,4-D	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
2,4-DB	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
4-Nitrophenol	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
Dalapon	ND		0.40		ug/L		08/03/16 09:48	08/06/16 11:42	1
Dicamba	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
Dichlorprop	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
Dinoseb	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
MCPA	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
Mecoprop	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
Pentachlorophenol	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		08/03/16 09:48	08/06/16 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*47*	*X*	*51 - 150*	*08/03/16 09:48*	*08/06/16 11:42*	*1*

Lab Sample ID: LCS 580-223876/2-A
Matrix: Water
Analysis Batch: 224246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223876

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	3.83		ug/L		77	20 - 150		
2,4-D			5.00	3.57		ug/L		71	20 - 150		
2,4-DB			5.00	3.95		ug/L		79	50 - 150		
4-Nitrophenol			5.00	3.14		ug/L		63	28 - 150		
Dalapon			5.00	0.720	*	ug/L		14	20 - 120		
Dicamba			5.00	3.37		ug/L		67	20 - 150		
Dichlorprop			5.00	3.38		ug/L		68	23 - 150		
Dinoseb			5.00	4.50		ug/L		90	24 - 150		
MCPA			5.00	3.78		ug/L		76	21 - 150		
Mecoprop			5.00	3.86		ug/L		77	51 - 150		
Pentachlorophenol			5.00	3.96		ug/L		79	48 - 150		
Silvex (2,4,5-TP)			5.00	4.24		ug/L		85	24 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*51 - 150*

Lab Sample ID: LCSD 580-223876/3-A
Matrix: Water
Analysis Batch: 224246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 223876

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	4.33		ug/L		87	20 - 150	12	35
2,4-D			5.00	4.65		ug/L		93	20 - 150	26	35
2,4-DB			5.00	4.73		ug/L		95	50 - 150	18	35
4-Nitrophenol			5.00	4.12		ug/L		82	28 - 150	27	35
Dalapon			5.00	0.703	*	ug/L		14	20 - 120	2	35

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: LCSD 580-223876/3-A
Matrix: Water
Analysis Batch: 224246

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 223876

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dicamba			5.00	3.85		ug/L		77	20 - 150	13	35
Dichlorprop			5.00	4.39		ug/L		88	23 - 150	26	35
Dinoseb			5.00	4.84		ug/L		97	24 - 150	7	35
MCPA			5.00	4.86		ug/L		97	21 - 150	25	35
Mecoprop			5.00	4.68		ug/L		94	51 - 150	19	35
Pentachlorophenol			5.00	4.92		ug/L		98	48 - 150	22	35
Silvex (2,4,5-TP)			5.00	4.86		ug/L		97	24 - 150	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*87*		*51 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-362591/3
Matrix: Water
Analysis Batch: 362591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			08/13/16 17:48	1
Fluoride	ND		0.10		mg/L			08/13/16 17:48	1
Sulfate	ND		1.0		mg/L			08/13/16 17:48	1

Lab Sample ID: LCS 490-362591/4
Matrix: Water
Analysis Batch: 362591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			10.0	9.95		mg/L		99	90 - 110		
Fluoride			1.00	0.959		mg/L		96	90 - 110		
Sulfate			10.0	9.72		mg/L		97	90 - 110		

Lab Sample ID: LCSD 490-362591/5
Matrix: Water
Analysis Batch: 362591

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			10.0	9.65		mg/L		97	90 - 110	3	20
Fluoride			1.00	0.967		mg/L		97	90 - 110	1	20
Sulfate			10.0	9.70		mg/L		97	90 - 110	0	20

Lab Sample ID: 580-61335-1 MS
Matrix: Water
Analysis Batch: 362591

Client Sample ID: 0716-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	43	E	2.00	37.0	4	mg/L		-286	80 - 120		
Fluoride	0.17	F1	0.200	0.324	F1	mg/L		75	80 - 120		
Sulfate	34		2.00	29.2	4	mg/L		-226	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-61335-18 MS
Matrix: Water
Analysis Batch: 362591

Client Sample ID: 0716-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	36		2.00	30.9	4	mg/L		-248	80 - 120
Fluoride	0.15		0.200	0.333		mg/L		89	80 - 120
Sulfate	8.8		2.00	8.99	4	mg/L		7	80 - 120

Lab Sample ID: MB 490-362592/3
Matrix: Water
Analysis Batch: 362592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			08/13/16 22:32	1
Fluoride	ND		0.10		mg/L			08/13/16 22:32	1
Sulfate	ND		1.0		mg/L			08/13/16 22:32	1

Lab Sample ID: LCS 490-362592/4
Matrix: Water
Analysis Batch: 362592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.1		mg/L		101	90 - 110
Fluoride	1.00	0.935		mg/L		94	90 - 110
Sulfate	10.0	9.66		mg/L		97	90 - 110

Lab Sample ID: LCSD 490-362592/5
Matrix: Water
Analysis Batch: 362592

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	10.0	10.0		mg/L		100	90 - 110	1	20
Fluoride	1.00	0.982		mg/L		98	90 - 110	5	20
Sulfate	10.0	9.76		mg/L		98	90 - 110	1	20

Lab Sample ID: 580-61335-19 MS
Matrix: Water
Analysis Batch: 362592

Client Sample ID: 0716-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	56	E	2.00	48.0	E 4	mg/L		-386	80 - 120
Fluoride	ND	F1	0.200	0.235	F1	mg/L		73	80 - 120
Sulfate	93	E	2.00	78.1	E 4	mg/L		-735	80 - 120

Lab Sample ID: MB 490-363247/3
Matrix: Water
Analysis Batch: 363247

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			08/16/16 19:07	1
Fluoride	ND		0.10		mg/L			08/16/16 19:07	1
Sulfate	ND		1.0		mg/L			08/16/16 19:07	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-363247/4
Matrix: Water
Analysis Batch: 363247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.52		mg/L		95	90 - 110
Fluoride	1.00	0.930		mg/L		93	90 - 110
Sulfate	10.0	9.62		mg/L		96	90 - 110

Lab Sample ID: LCSD 490-363247/5
Matrix: Water
Analysis Batch: 363247

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	10.0	9.77		mg/L		98	90 - 110	3	20
Fluoride	1.00	0.927		mg/L		93	90 - 110	0	20
Sulfate	10.0	9.65		mg/L		96	90 - 110	0	20

Lab Sample ID: MB 490-363248/3
Matrix: Water
Analysis Batch: 363248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			08/16/16 16:02	1
Fluoride	ND		0.10		mg/L			08/16/16 16:02	1
Sulfate	ND		1.0		mg/L			08/16/16 16:02	1

Lab Sample ID: LCS 490-363248/4
Matrix: Water
Analysis Batch: 363248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.46		mg/L		95	90 - 110
Sulfate	10.0	9.56		mg/L		96	90 - 110

Lab Sample ID: LCSD 490-363248/5
Matrix: Water
Analysis Batch: 363248

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	10.0	9.79		mg/L		98	90 - 110	3	20
Fluoride	1.00	0.907		mg/L		91	90 - 110	2	20
Sulfate	10.0	9.67		mg/L		97	90 - 110	1	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-223927/21-A
Matrix: Water
Analysis Batch: 224278

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/03/16 14:01	08/05/16 08:38	1
Iron	ND		0.30		mg/L		08/03/16 14:01	08/05/16 08:38	1
Magnesium	ND		1.1		mg/L		08/03/16 14:01	08/05/16 08:38	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 580-223927/21-A
Matrix: Water
Analysis Batch: 224278

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		08/03/16 14:01	08/05/16 08:38	1
Potassium	ND		3.3		mg/L		08/03/16 14:01	08/05/16 08:38	1
Sodium	ND		2.0		mg/L		08/03/16 14:01	08/05/16 08:38	1

Lab Sample ID: LCS 580-223927/22-A
Matrix: Water
Analysis Batch: 224278

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.2		mg/L		101	80 - 120
Iron	22.0	21.9		mg/L		100	80 - 120
Magnesium	20.0	20.0		mg/L		100	80 - 120
Manganese	1.00	1.00		mg/L		100	80 - 120
Potassium	20.0	19.9		mg/L		100	80 - 120
Sodium	20.0	20.2		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-223927/23-A
Matrix: Water
Analysis Batch: 224278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223927

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.6		mg/L		98	80 - 120	3	20
Iron	22.0	21.0		mg/L		96	80 - 120	4	20
Magnesium	20.0	19.4		mg/L		97	80 - 120	3	20
Manganese	1.00	0.973		mg/L		97	80 - 120	3	20
Potassium	20.0	19.4		mg/L		97	80 - 120	3	20
Sodium	20.0	19.6		mg/L		98	80 - 120	3	20

Lab Sample ID: MB 580-223944/20-A
Matrix: Water
Analysis Batch: 224143

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/03/16 15:12	08/04/16 16:24	1
Iron	ND		0.30		mg/L		08/03/16 15:12	08/04/16 16:24	1
Magnesium	ND		1.1		mg/L		08/03/16 15:12	08/04/16 16:24	1
Manganese	ND		0.020		mg/L		08/03/16 15:12	08/04/16 16:24	1
Potassium	ND		3.3		mg/L		08/03/16 15:12	08/04/16 16:24	1
Sodium	ND		2.0		mg/L		08/03/16 15:12	08/04/16 16:24	1

Lab Sample ID: LCS 580-223944/21-A
Matrix: Water
Analysis Batch: 224143

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.1		mg/L		101	80 - 120
Iron	22.0	21.7		mg/L		99	80 - 120
Magnesium	20.0	19.8		mg/L		99	80 - 120
Manganese	1.00	0.985		mg/L		98	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-223944/21-A
Matrix: Water
Analysis Batch: 224143

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	20.0	19.8		mg/L		99	80 - 120
Sodium	20.0	19.9		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-223944/22-A
Matrix: Water
Analysis Batch: 224143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	21.1		mg/L		105	80 - 120	5	20
Iron	22.0	22.6		mg/L		103	80 - 120	4	20
Magnesium	20.0	20.6		mg/L		103	80 - 120	4	20
Manganese	1.00	1.03		mg/L		103	80 - 120	5	20
Potassium	20.0	20.7		mg/L		104	80 - 120	5	20
Sodium	20.0	20.9		mg/L		105	80 - 120	5	20

Lab Sample ID: 580-61335-1 MS
Matrix: Water
Analysis Batch: 224278

Client Sample ID: 0716-09
Prep Type: Dissolved
Prep Batch: 223927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	65		20.0	81.4		mg/L		83	75 - 125
Iron	ND		22.0	21.0		mg/L		95	75 - 125
Magnesium	41		20.0	58.9		mg/L		89	75 - 125
Manganese	ND		1.00	0.953		mg/L		95	75 - 125
Potassium	6.4		20.0	25.5		mg/L		95	75 - 125
Sodium	26		20.0	43.6		mg/L		89	75 - 125

Lab Sample ID: 580-61335-1 MSD
Matrix: Water
Analysis Batch: 224278

Client Sample ID: 0716-09
Prep Type: Dissolved
Prep Batch: 223927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	65		20.0	82.9		mg/L		91	75 - 125	2	20
Iron	ND		22.0	21.8		mg/L		99	75 - 125	4	20
Magnesium	41		20.0	60.3		mg/L		96	75 - 125	2	20
Manganese	ND		1.00	0.986		mg/L		99	75 - 125	3	20
Potassium	6.4		20.0	26.4		mg/L		100	75 - 125	3	20
Sodium	26		20.0	44.6		mg/L		94	75 - 125	2	20

Lab Sample ID: 580-61335-1 DU
Matrix: Water
Analysis Batch: 224278

Client Sample ID: 0716-09
Prep Type: Dissolved
Prep Batch: 223927

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	65		63.7		mg/L		2	20
Iron	ND		ND		mg/L		NC	20
Magnesium	41		40.3		mg/L		2	20
Manganese	ND		ND		mg/L		NC	20
Potassium	6.4		6.29		mg/L		2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-61335-1 DU
Matrix: Water
Analysis Batch: 224278

Client Sample ID: 0716-09
Prep Type: Dissolved
Prep Batch: 223927

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sodium	26		25.3		mg/L		2	20

Lab Sample ID: 580-61335-E-28-C MS
Matrix: Water
Analysis Batch: 224143

Client Sample ID: 580-61335-E-28-C MS
Prep Type: Dissolved
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	72		20.0	95.3		mg/L		116	75 - 125
Iron	0.45		22.0	22.5		mg/L		100	75 - 125
Magnesium	45		20.0	66.6		mg/L		108	75 - 125
Manganese	0.11		1.00	1.11		mg/L		100	75 - 125
Potassium	5.7		20.0	26.3		mg/L		103	75 - 125
Sodium	30		20.0	52.1		mg/L		108	75 - 125

Lab Sample ID: 580-61335-E-28-D MSD
Matrix: Water
Analysis Batch: 224143

Client Sample ID: 580-61335-E-28-D MSD
Prep Type: Dissolved
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	72		20.0	92.6		mg/L		102	75 - 125	3	20
Iron	0.45		22.0	21.9		mg/L		97	75 - 125	3	20
Magnesium	45		20.0	64.8		mg/L		99	75 - 125	3	20
Manganese	0.11		1.00	1.09		mg/L		98	75 - 125	2	20
Potassium	5.7		20.0	25.8		mg/L		101	75 - 125	2	20
Sodium	30		20.0	50.6		mg/L		101	75 - 125	3	20

Lab Sample ID: 580-61335-E-28-B DU
Matrix: Water
Analysis Batch: 224143

Client Sample ID: 580-61335-E-28-B DU
Prep Type: Dissolved
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	72		72.5		mg/L		0.5	20
Iron	0.45		0.361	F5	mg/L		21	20
Magnesium	45		45.1		mg/L		0.2	20
Manganese	0.11		0.106		mg/L		0.4	20
Potassium	5.7		5.72		mg/L		0.9	20
Sodium	30		30.6		mg/L		0.7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-223795/21-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Arsenic	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 00:50	1
Barium	ND		0.0012		mg/L		08/02/16 11:49	08/03/16 00:50	1
Beryllium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-223795/21-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Chromium	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Cobalt	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Copper	ND		0.0020		mg/L		08/02/16 11:49	08/03/16 00:50	1
Lead	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Nickel	ND		0.0030		mg/L		08/02/16 11:49	08/03/16 00:50	1
Selenium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 00:50	1
Silver	ND		0.00040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Thallium	ND		0.0010		mg/L		08/02/16 11:49	08/03/16 00:50	1
Vanadium	ND		0.0040		mg/L		08/02/16 11:49	08/03/16 00:50	1
Zinc	ND		0.0070		mg/L		08/02/16 11:49	08/03/16 00:50	1

Lab Sample ID: LCS 580-223795/22-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.99		mg/L		100	80 - 120
Arsenic	4.00	4.03		mg/L		101	80 - 120
Barium	4.00	4.07		mg/L		102	80 - 120
Beryllium	0.100	0.101		mg/L		101	80 - 120
Cadmium	0.100	0.103		mg/L		103	80 - 120
Chromium	0.400	0.396		mg/L		99	80 - 120
Cobalt	1.00	0.979		mg/L		98	80 - 120
Copper	0.500	0.496		mg/L		99	80 - 120
Lead	1.00	0.985		mg/L		99	80 - 120
Nickel	1.00	0.977		mg/L		98	80 - 120
Selenium	4.00	3.96		mg/L		99	80 - 120
Silver	0.600	0.594		mg/L		99	80 - 120
Thallium	4.00	3.72		mg/L		93	80 - 120
Vanadium	1.00	0.976		mg/L		98	80 - 120
Zinc	4.00	3.93		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-223795/23-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.01		mg/L		100	80 - 120	1	20
Arsenic	4.00	4.01		mg/L		100	80 - 120	1	20
Barium	4.00	4.04		mg/L		101	80 - 120	1	20
Beryllium	0.100	0.0980		mg/L		98	80 - 120	3	20
Cadmium	0.100	0.0984		mg/L		98	80 - 120	5	20
Chromium	0.400	0.400		mg/L		100	80 - 120	1	20
Cobalt	1.00	0.978		mg/L		98	80 - 120	0	20
Copper	0.500	0.501		mg/L		100	80 - 120	1	20
Lead	1.00	0.981		mg/L		98	80 - 120	0	20
Nickel	1.00	0.979		mg/L		98	80 - 120	0	20
Selenium	4.00	3.97		mg/L		99	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-223795/23-A
Matrix: Water
Analysis Batch: 223883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.600	0.593		mg/L		99	80 - 120	0	20
Thallium	4.00	3.71		mg/L		93	80 - 120	0	20
Vanadium	1.00	0.981		mg/L		98	80 - 120	1	20
Zinc	4.00	3.93		mg/L		98	80 - 120	0	20

Lab Sample ID: MB 580-223922/21-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Arsenic	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 10:13	1
Barium	ND		0.0012		mg/L		08/03/16 13:26	08/05/16 10:13	1
Beryllium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Cadmium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Chromium	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Cobalt	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Copper	ND		0.0020		mg/L		08/03/16 13:26	08/05/16 10:13	1
Lead	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Nickel	ND		0.0030		mg/L		08/03/16 13:26	08/05/16 10:13	1
Selenium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 10:13	1
Silver	ND		0.00040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Thallium	ND		0.0010		mg/L		08/03/16 13:26	08/05/16 10:13	1
Vanadium	ND		0.0040		mg/L		08/03/16 13:26	08/05/16 10:13	1
Zinc	ND		0.0070		mg/L		08/03/16 13:26	08/05/16 10:13	1

Lab Sample ID: LCS 580-223922/22-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.02		mg/L		101	80 - 120
Arsenic	4.00	4.08		mg/L		102	80 - 120
Barium	4.00	4.08		mg/L		102	80 - 120
Beryllium	0.100	0.100		mg/L		100	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.392		mg/L		98	80 - 120
Cobalt	1.00	0.995		mg/L		99	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Lead	1.00	0.982		mg/L		98	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	4.00	4.03		mg/L		101	80 - 120
Silver	0.600	0.597		mg/L		100	80 - 120
Thallium	4.00	3.73		mg/L		93	80 - 120
Vanadium	1.00	1.00		mg/L		100	80 - 120
Zinc	4.00	3.96		mg/L		99	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-223922/23-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.01		mg/L		100	80 - 120	0	20
Arsenic	4.00	4.00		mg/L		100	80 - 120	2	20
Barium	4.00	4.04		mg/L		101	80 - 120	1	20
Beryllium	0.100	0.0978		mg/L		98	80 - 120	2	20
Cadmium	0.100	0.0910		mg/L		91	80 - 120	10	20
Chromium	0.400	0.390		mg/L		97	80 - 120	1	20
Cobalt	1.00	0.982		mg/L		98	80 - 120	1	20
Copper	0.500	0.504		mg/L		101	80 - 120	3	20
Lead	1.00	0.966		mg/L		97	80 - 120	2	20
Nickel	1.00	0.990		mg/L		99	80 - 120	2	20
Selenium	4.00	3.94		mg/L		98	80 - 120	2	20
Silver	0.600	0.592		mg/L		99	80 - 120	1	20
Thallium	4.00	3.64		mg/L		91	80 - 120	2	20
Vanadium	1.00	0.989		mg/L		99	80 - 120	1	20
Zinc	4.00	3.92		mg/L		98	80 - 120	1	20

Lab Sample ID: 580-61335-10 MS
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-16
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.17		mg/L		106	80 - 120
Arsenic	0.0036		4.00	4.25		mg/L		106	80 - 120
Barium	0.015		4.00	4.29		mg/L		107	80 - 120
Beryllium	ND		0.100	0.108		mg/L		108	80 - 120
Cadmium	ND		0.100	0.107		mg/L		107	80 - 120
Chromium	0.0026		0.400	0.417		mg/L		104	80 - 120
Cobalt	ND		1.00	1.06		mg/L		106	80 - 120
Copper	0.0062		0.500	0.548		mg/L		108	80 - 120
Lead	ND		1.00	1.04		mg/L		104	80 - 120
Nickel	0.0075		1.00	1.08		mg/L		107	80 - 120
Selenium	ND		4.00	4.26		mg/L		107	80 - 120
Silver	ND		0.600	0.594		mg/L		99	80 - 120
Thallium	ND		4.00	3.81		mg/L		95	80 - 120
Vanadium	0.0067		1.00	1.00		mg/L		99	80 - 120
Zinc	ND		4.00	4.20		mg/L		105	80 - 120

Lab Sample ID: 580-61335-10 MSD
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-16
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.14		mg/L		105	80 - 120	1	20
Arsenic	0.0036		4.00	4.25		mg/L		106	80 - 120	0	20
Barium	0.015		4.00	4.28		mg/L		107	80 - 120	0	20
Beryllium	ND		0.100	0.110		mg/L		110	80 - 120	2	20
Cadmium	ND		0.100	0.107		mg/L		107	80 - 120	0	20
Chromium	0.0026		0.400	0.418		mg/L		104	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-61335-10 MSD
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-16
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	ND		1.00	1.06		mg/L		105	80 - 120	0	20
Copper	0.0062		0.500	0.535		mg/L		106	80 - 120	2	20
Lead	ND		1.00	1.04		mg/L		104	80 - 120	0	20
Nickel	0.0075		1.00	1.08		mg/L		107	80 - 120	0	20
Selenium	ND		4.00	4.30		mg/L		107	80 - 120	1	20
Silver	ND		0.600	0.584		mg/L		97	80 - 120	2	20
Thallium	ND		4.00	3.81		mg/L		95	80 - 120	0	20
Vanadium	0.0067		1.00	1.01		mg/L		100	80 - 120	1	20
Zinc	ND		4.00	4.26		mg/L		106	80 - 120	1	20

Lab Sample ID: 580-61335-10 DU
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-16
Prep Type: Total Recoverable
Prep Batch: 223922

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0036		0.00360		mg/L		0.2	20
Barium	0.015		0.0149		mg/L		1	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0026		0.00262		mg/L		1	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0062		0.00455	F5	mg/L		30	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0075		0.00780		mg/L		4	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0067		0.00696		mg/L		4	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-223944/20-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Arsenic	ND		0.0010		mg/L		08/03/16 15:12	08/05/16 12:54	1
Barium	ND		0.0012		mg/L		08/03/16 15:12	08/05/16 12:54	1
Beryllium	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Cadmium	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Chromium	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Cobalt	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Copper	ND		0.0020		mg/L		08/03/16 15:12	08/05/16 12:54	1
Lead	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Nickel	ND		0.0030		mg/L		08/03/16 15:12	08/05/16 12:54	1
Selenium	ND		0.0010		mg/L		08/03/16 15:12	08/05/16 12:54	1
Silver	ND		0.00040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Thallium	ND		0.0010		mg/L		08/03/16 15:12	08/05/16 12:54	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-223944/20-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.0040		mg/L		08/03/16 15:12	08/05/16 12:54	1
Zinc	ND		0.0070		mg/L		08/03/16 15:12	08/05/16 12:54	1

Lab Sample ID: LCS 580-223944/21-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.95		mg/L		98	80 - 120
Arsenic	4.00	3.95		mg/L		99	80 - 120
Barium	4.00	3.99		mg/L		100	80 - 120
Beryllium	0.100	0.0989		mg/L		99	80 - 120
Cadmium	0.100	0.0981		mg/L		98	80 - 120
Chromium	0.400	0.385		mg/L		96	80 - 120
Cobalt	1.00	0.961		mg/L		96	80 - 120
Copper	0.500	0.530		mg/L		106	80 - 120
Lead	1.00	0.949		mg/L		95	80 - 120
Nickel	1.00	0.967		mg/L		97	80 - 120
Selenium	4.00	3.97		mg/L		99	80 - 120
Silver	0.600	0.589		mg/L		98	80 - 120
Thallium	4.00	3.59		mg/L		90	80 - 120
Vanadium	1.00	0.927		mg/L		93	80 - 120
Zinc	4.00	3.80		mg/L		95	80 - 120

Lab Sample ID: LCSD 580-223944/22-A
Matrix: Water
Analysis Batch: 224272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.96		mg/L		99	80 - 120	0	20
Arsenic	4.00	3.97		mg/L		99	80 - 120	1	20
Barium	4.00	4.02		mg/L		100	80 - 120	1	20
Beryllium	0.100	0.0991		mg/L		99	80 - 120	0	20
Cadmium	0.100	0.105		mg/L		105	80 - 120	7	20
Chromium	0.400	0.379		mg/L		95	80 - 120	1	20
Cobalt	1.00	0.965		mg/L		97	80 - 120	0	20
Copper	0.500	0.522		mg/L		104	80 - 120	2	20
Lead	1.00	0.953		mg/L		95	80 - 120	0	20
Nickel	1.00	0.978		mg/L		98	80 - 120	1	20
Selenium	4.00	4.00		mg/L		100	80 - 120	1	20
Silver	0.600	0.589		mg/L		98	80 - 120	0	20
Thallium	4.00	3.61		mg/L		90	80 - 120	1	20
Vanadium	1.00	0.936		mg/L		94	80 - 120	1	20
Zinc	4.00	3.88		mg/L		97	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-61335-E-28-C MS
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-29
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.15		mg/L		105	80 - 120
Arsenic	0.0058		4.00	4.20		mg/L		105	80 - 120
Barium	0.028		4.00	4.33		mg/L		108	80 - 120
Beryllium	ND		0.100	0.106		mg/L		106	80 - 120
Cadmium	ND		0.100	0.108		mg/L		108	80 - 120
Chromium	ND		0.400	0.411		mg/L		103	80 - 120
Cobalt	ND		1.00	1.03		mg/L		102	80 - 120
Copper	0.0033		0.500	0.547		mg/L		109	80 - 120
Lead	ND		1.00	1.03		mg/L		103	80 - 120
Nickel	ND		1.00	1.02		mg/L		102	80 - 120
Selenium	ND		4.00	4.24		mg/L		106	80 - 120
Silver	ND		0.600	0.593		mg/L		99	80 - 120
Thallium	ND		4.00	3.75		mg/L		94	80 - 120
Vanadium	ND		1.00	1.02		mg/L		102	80 - 120
Zinc	0.13		4.00	4.27		mg/L		103	80 - 120

Lab Sample ID: 580-61335-E-28-D MSD
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-29
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.14		mg/L		104	80 - 120	0	20
Arsenic	0.0058		4.00	4.18		mg/L		104	80 - 120	0	20
Barium	0.028		4.00	4.32		mg/L		107	80 - 120	0	20
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120	1	20
Cadmium	ND		0.100	0.106		mg/L		106	80 - 120	2	20
Chromium	ND		0.400	0.409		mg/L		102	80 - 120	1	20
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120	1	20
Copper	0.0033		0.500	0.513		mg/L		102	80 - 120	6	20
Lead	ND		1.00	1.02		mg/L		102	80 - 120	1	20
Nickel	ND		1.00	1.02		mg/L		102	80 - 120	0	20
Selenium	ND		4.00	4.22		mg/L		106	80 - 120	0	20
Silver	ND		0.600	0.584		mg/L		97	80 - 120	1	20
Thallium	ND		4.00	3.76		mg/L		94	80 - 120	0	20
Vanadium	ND		1.00	1.00		mg/L		100	80 - 120	2	20
Zinc	0.13		4.00	4.28		mg/L		104	80 - 120	0	20

Lab Sample ID: 580-61335-E-28-B DU
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-29
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0058		0.00588		mg/L		2	20
Barium	0.028		0.0292		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		0.000437		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-61335-E-28-B DU
Matrix: Water
Analysis Batch: 224272

Client Sample ID: 0716-29
Prep Type: Total Recoverable
Prep Batch: 223944

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0033		0.00317		mg/L		5	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	0.13		0.137		mg/L		3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-223928/1-A
Matrix: Water
Analysis Batch: 224008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/16 14:01	08/04/16 09:40	1

Lab Sample ID: LCS 580-223928/2-A
Matrix: Water
Analysis Batch: 224008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.12		mg/L		106	90 - 110

Lab Sample ID: 580-61335-1 MS
Matrix: Water
Analysis Batch: 224008

Client Sample ID: 0716-09
Prep Type: Total/NA
Prep Batch: 223928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		2.00	2.09		mg/L		99	90 - 110

Lab Sample ID: 580-61335-1 MSD
Matrix: Water
Analysis Batch: 224008

Client Sample ID: 0716-09
Prep Type: Total/NA
Prep Batch: 223928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.17		mg/L		103	90 - 110	4	20

Lab Sample ID: 580-61335-1 DU
Matrix: Water
Analysis Batch: 224008

Client Sample ID: 0716-09
Prep Type: Total/NA
Prep Batch: 223928

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 580-224141/1-A
Matrix: Water
Analysis Batch: 224169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 224141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/04/16 18:12	08/05/16 09:44	1

Lab Sample ID: LCS 580-224141/2-A
Matrix: Water
Analysis Batch: 224169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 224141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	2.06		mg/L		103	90 - 110		

Lab Sample ID: 580-61335-24 MS
Matrix: Water
Analysis Batch: 224169

Client Sample ID: 0716-26
Prep Type: Total/NA
Prep Batch: 224141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND		2.00	2.02		mg/L		97	90 - 110		

Lab Sample ID: 580-61335-24 MSD
Matrix: Water
Analysis Batch: 224169

Client Sample ID: 0716-26
Prep Type: Total/NA
Prep Batch: 224141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.16		mg/L		104	90 - 110	7	20

Lab Sample ID: 580-61335-24 DU
Matrix: Water
Analysis Batch: 224169

Client Sample ID: 0716-26
Prep Type: Total/NA
Prep Batch: 224141

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	ND			ND		mg/L				NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-223819/14
Matrix: Water
Analysis Batch: 223819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 12:41	1

Lab Sample ID: MB 580-223819/47
Matrix: Water
Analysis Batch: 223819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			08/02/16 13:20	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 580-223819/15
Matrix: Water
Analysis Batch: 223819

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	1.00	0.978		mg/L		98	90 - 110

Lab Sample ID: LCS 580-223819/48
Matrix: Water
Analysis Batch: 223819

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	1.00	0.995		mg/L		100	90 - 110

Lab Sample ID: LCSD 580-223819/16
Matrix: Water
Analysis Batch: 223819

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	1.00	0.973		mg/L		97	90 - 110	1	20

Lab Sample ID: LCSD 580-223819/49
Matrix: Water
Analysis Batch: 223819

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	1.00	0.988		mg/L		99	90 - 110	1	20

Lab Sample ID: 580-61335-1 MS
Matrix: Water
Analysis Batch: 223819

Client Sample ID: 0716-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		0.500	0.461		mg/L		89	60 - 130

Lab Sample ID: 580-61335-1 MSD
Matrix: Water
Analysis Batch: 223819

Client Sample ID: 0716-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		0.500	0.451		mg/L		87	60 - 130	2	20

Lab Sample ID: 580-61335-24 MS
Matrix: Water
Analysis Batch: 223819

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	13	F1	5.00	13.0	F1	mg/L		0.6	60 - 130

Lab Sample ID: 580-61335-24 MSD
Matrix: Water
Analysis Batch: 223819

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	13	F1	5.00	13.3	F1	mg/L		6	60 - 130	2	20

Lab Sample ID: 580-61335-1 DU
Matrix: Water
Analysis Batch: 223819

Client Sample ID: 0716-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	20

Lab Sample ID: 580-61335-24 DU
Matrix: Water
Analysis Batch: 223819

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	13	F1	12.5		mg/L		4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-223782/2
Matrix: Water
Analysis Batch: 223782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	105		mg/L		105	85 - 115

Lab Sample ID: 580-61335-1 DU
Matrix: Water
Analysis Batch: 223782

Client Sample ID: 0716-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	310		296		mg/L		3	17
Bicarbonate Alkalinity as CaCO3	310		296		mg/L		3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Lab Sample ID: 580-61335-14 DU
Matrix: Water
Analysis Batch: 223782

Client Sample ID: 0716-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	260		267		mg/L		3	17
Bicarbonate Alkalinity as CaCO3	260		267		mg/L		3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Lab Sample ID: LCS 580-223783/2
Matrix: Water
Analysis Batch: 223783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	105		mg/L		105	85 - 115

Lab Sample ID: 580-61335-24 DU
Matrix: Water
Analysis Batch: 223783

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	380		368		mg/L		2	17

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 580-61335-24 DU
Matrix: Water
Analysis Batch: 223783

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	380		368		mg/L		2	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-223589/1
Matrix: Water
Analysis Batch: 223589

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			07/30/16 13:19	1

Lab Sample ID: LCS 580-223589/2
Matrix: Water
Analysis Batch: 223589

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	1000	1020		mg/L		102	80 - 120

Lab Sample ID: 580-61335-1 DU
Matrix: Water
Analysis Batch: 223589

Client Sample ID: 0716-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	430		411		mg/L		4	20

Lab Sample ID: 580-61335-14 DU
Matrix: Water
Analysis Batch: 223589

Client Sample ID: 0716-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	380		392		mg/L		4	20

Lab Sample ID: MB 580-223800/1
Matrix: Water
Analysis Batch: 223800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			08/02/16 12:18	1

Lab Sample ID: LCS 580-223800/2
Matrix: Water
Analysis Batch: 223800

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	1000	990		mg/L		99	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 580-61335-22 DU
Matrix: Water
Analysis Batch: 223800

Client Sample ID: 0716-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	490			505		mg/L				3	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-223664/3-A
Matrix: Water
Analysis Batch: 223738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223664

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 11:09	08/01/16 11:09	1

Lab Sample ID: LCS 580-223664/4-A
Matrix: Water
Analysis Batch: 223738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	75.9		mg/L		101	80 - 120		

Lab Sample ID: MB 580-223739/3-A
Matrix: Water
Analysis Batch: 223741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 223739

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		08/01/16 14:21	08/01/16 14:21	1

Lab Sample ID: LCS 580-223739/4-A
Matrix: Water
Analysis Batch: 223741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 223739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	72.0		mg/L		96	80 - 120		

Lab Sample ID: 580-61335-20 MS
Matrix: Water
Analysis Batch: 223741

Client Sample ID: 0716-28
Prep Type: Total/NA
Prep Batch: 223739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	F1	25.0	34.0	F1	mg/L		136	75 - 125		

Lab Sample ID: 580-61335-20 DU
Matrix: Water
Analysis Batch: 223741

Client Sample ID: 0716-28
Prep Type: Total/NA
Prep Batch: 223739

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND	F1		ND		mg/L				NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-223672/1
Matrix: Water
Analysis Batch: 223672

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			08/01/16 12:05	1

Lab Sample ID: LCS 580-223672/2
Matrix: Water
Analysis Batch: 223672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.43		mg/L		94	85 - 115

Lab Sample ID: 580-61335-2 MS
Matrix: Water
Analysis Batch: 223672

Client Sample ID: 0716-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.6		10.0	12.2		mg/L		96	85 - 115

Lab Sample ID: 580-61335-2 MSD
Matrix: Water
Analysis Batch: 223672

Client Sample ID: 0716-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.6		10.0	12.6		mg/L		100	85 - 115	3	20

Lab Sample ID: 580-61335-2 DU
Matrix: Water
Analysis Batch: 223672

Client Sample ID: 0716-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.6		2.56		mg/L		0.1	20

Lab Sample ID: MB 580-223673/1
Matrix: Water
Analysis Batch: 223673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			08/01/16 12:09	1

Lab Sample ID: LCS 580-223673/2
Matrix: Water
Analysis Batch: 223673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	8.77		mg/L		88	85 - 115

Lab Sample ID: 580-61335-14 MS
Matrix: Water
Analysis Batch: 223673

Client Sample ID: 0716-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	ND		10.0	9.63		mg/L		88	85 - 115

Lab Sample ID: 580-61335-14 MSD
Matrix: Water
Analysis Batch: 223673

Client Sample ID: 0716-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND		10.0	9.88		mg/L		91	85 - 115	3	20

Lab Sample ID: 580-61335-14 DU
Matrix: Water
Analysis Batch: 223673

Client Sample ID: 0716-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-223780/1
Matrix: Water
Analysis Batch: 223780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			08/02/16 10:00	1

Lab Sample ID: LCS 580-223780/2
Matrix: Water
Analysis Batch: 223780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.27		mg/L		93	85 - 115

Lab Sample ID: 580-61335-24 MS
Matrix: Water
Analysis Batch: 223780

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.2		10.0	10.4		mg/L		92	85 - 115

Lab Sample ID: 580-61335-24 MSD
Matrix: Water
Analysis Batch: 223780

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.2		10.0	10.4		mg/L		92	85 - 115	0	20

Lab Sample ID: 580-61335-24 DU
Matrix: Water
Analysis Batch: 223780

Client Sample ID: 0716-26
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.2		1.10		mg/L		11	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-09

Date Collected: 07/26/16 10:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 00:05	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/09/16 21:54	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 18:21	KS	TAL NSH
Total/NA	Analysis	300.0		2	363248	08/16/16 16:35	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 08:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			223795	08/02/16 11:49	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 02:38	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 12:45	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-08

Date Collected: 07/26/16 11:06
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 00:31	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/05/16 21:04	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 18:43	KS	TAL NSH
Total/NA	Analysis	300.0		5	363248	08/16/16 16:46	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:12	HJM	TAL SEA
Total Recoverable	Prep	3005A			223795	08/02/16 11:49	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 02:42	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 12:50	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-14
Date Collected: 07/26/16 12:48
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 00:57	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/09/16 22:20	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 18:54	KS	TAL NSH
Total/NA	Analysis	300.0		5	363248	08/16/16 16:56	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:16	HJM	TAL SEA
Total Recoverable	Prep	3005A			223795	08/02/16 11:49	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 02:47	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 12:51	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-95
Date Collected: 07/26/16 13:53
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 01:23	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/09/16 22:46	HDK	TAL SEA

Client Sample ID: 0716-97
Date Collected: 07/26/16 14:52
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 01:50	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/05/16 22:48	W1T	TAL SEA

Client Sample ID: 0716-98
Date Collected: 07/26/16 16:08
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 02:15	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/09/16 23:13	HDK	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-01

Date Collected: 07/26/16 16:37
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 02:41	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/09/16 23:39	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 19:05	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:19	HJM	TAL SEA
Total Recoverable	Prep	3005A			223795	08/02/16 11:49	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 02:51	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 12:52	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-27

Date Collected: 07/26/16 17:58
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223674	08/02/16 03:08	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/10/16 00:06	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 19:16	KS	TAL NSH
Total/NA	Analysis	300.0		5	363248	08/16/16 17:07	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:22	HJM	TAL SEA
Total Recoverable	Prep	3005A			223795	08/02/16 11:49	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 02:55	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 12:55	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-15

Date Collected: 07/26/16 10:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 20:34	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 00:33	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 19:26	KS	TAL NSH
Total/NA	Analysis	300.0		10	363248	08/16/16 17:18	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:26	HJM	TAL SEA
Total Recoverable	Prep	3005A			223795	08/02/16 11:49	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	223883	08/03/16 03:00	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 12:57	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-16

Date Collected: 07/26/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 21:00	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 00:59	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 19:37	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:29	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 10:31	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:31	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-19

Date Collected: 07/26/16 11:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 21:26	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 01:26	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 19:48	KS	TAL NSH
Total/NA	Analysis	300.0		20	363248	08/16/16 17:29	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:32	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:07	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:32	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-31

Date Collected: 07/26/16 11:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 21:52	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 01:52	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 19:59	KS	TAL NSH
Total/NA	Analysis	300.0		50	363248	08/16/16 17:40	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:35	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:11	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:34	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-20

Date Collected: 07/26/16 13:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 22:18	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 02:18	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 20:10	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:39	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:16	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 13:38	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223672	08/01/16 12:05	Z1T	TAL SEA

Client Sample ID: 0716-32

Date Collected: 07/26/16 12:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 22:45	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 02:44	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 20:43	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:20	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 13:02	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-21

Date Collected: 07/26/16 13:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 23:11	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 03:11	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 20:54	KS	TAL NSH
Total/NA	Analysis	300.0		5	363248	08/16/16 17:51	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:51	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:25	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:35	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Client Sample ID: 0716-22

Date Collected: 07/26/16 14:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/03/16 23:37	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 00:07	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 21:04	KS	TAL NSH
Total/NA	Analysis	300.0		5	363248	08/16/16 18:02	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:55	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:29	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		5	223819	08/02/16 14:36	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Client Sample ID: 0716-23

Date Collected: 07/26/16 15:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 00:03	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/05/16 21:56	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 21:15	KS	TAL NSH
Total/NA	Analysis	300.0		5	363248	08/16/16 18:13	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 09:58	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:33	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:37	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Client Sample ID: 0716-05

Date Collected: 07/26/16 15:30
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 00:29	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 03:37	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362591	08/13/16 21:26	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 10:01	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:38	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 13:09	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-12

Date Collected: 07/26/16 16:20
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 00:55	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 04:03	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/13/16 23:04	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 19:40	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 10:05	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 11:42	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		100	223819	08/02/16 14:38	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223664	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223738	08/01/16 11:09	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Client Sample ID: 0716-28

Date Collected: 07/26/16 17:55
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 01:22	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224049	08/06/16 04:29	W1T	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/13/16 23:26	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 19:51	KS	TAL NSH
Dissolved	Prep	3005A			223927	08/03/16 14:01	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224278	08/05/16 10:08	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:05	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 13:39	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-10

Date Collected: 07/27/16 10:25
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 01:48	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/10/16 00:59	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/13/16 23:37	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 20:02	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 16:58	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:09	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 14:39	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223589	07/30/16 13:19	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Client Sample ID: 0716-11

Date Collected: 07/27/16 10:35
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 02:14	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/10/16 01:25	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/13/16 23:48	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 20:13	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 17:01	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:14	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:01	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 14:41	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223800	08/02/16 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-25

Date Collected: 07/27/16 11:39
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 02:40	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/10/16 01:51	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/13/16 23:59	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 20:23	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 17:04	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:18	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			223928	08/03/16 14:03	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224008	08/04/16 09:40	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 13:15	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223782	08/02/16 10:11	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223800	08/02/16 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223673	08/01/16 12:09	Z1T	TAL SEA

Client Sample ID: 0716-26

Date Collected: 07/27/16 13:27
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223900	08/04/16 03:06	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	224475	08/10/16 02:18	HDK	TAL SEA
Total/NA	Prep	8151A			223876	08/03/16 09:48	J1J	TAL SEA
Total/NA	Analysis	8151A		1	224246	08/06/16 12:51	ERB	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/14/16 00:10	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 20:34	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 17:07	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:22	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			224141	08/04/16 18:12	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224169	08/05/16 09:44	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:44	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223783	08/02/16 10:19	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223800	08/02/16 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223780	08/02/16 10:00	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-96
Date Collected: 07/27/16 12:36
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	224475	08/10/16 02:43	HDK	TAL SEA

Client Sample ID: 0716-18
Date Collected: 07/27/16 12:50
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	224475	08/10/16 03:09	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/14/16 00:21	NC	TAL NSH
Total/NA	Analysis	300.0		10	363247	08/16/16 20:45	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 17:11	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:27	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			224141	08/04/16 18:12	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224169	08/05/16 09:44	EMM	TAL SEA
Total/NA	Analysis	353.2		10	223819	08/02/16 14:49	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223783	08/02/16 10:19	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223800	08/02/16 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223780	08/02/16 10:00	Z1T	TAL SEA

Client Sample ID: 0716-17
Date Collected: 07/27/16 12:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	224475	08/10/16 03:36	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/14/16 00:32	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 20:56	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 17:14	HJM	TAL SEA
Total Recoverable	Prep	3005A			223922	08/03/16 13:26	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 12:31	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			224141	08/04/16 18:12	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224169	08/05/16 09:44	EMM	TAL SEA
Total/NA	Analysis	353.2		5	223819	08/02/16 14:50	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223783	08/02/16 10:19	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223800	08/02/16 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Client Sample ID: 0716-17

Date Collected: 07/27/16 12:15
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310B		1	223780	08/02/16 10:00	Z1T	TAL SEA

Client Sample ID: 0716-29

Date Collected: 07/27/16 11:05
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	224475	08/10/16 04:02	HDK	TAL SEA
Total/NA	Analysis	300.0		1	362592	08/14/16 00:42	NC	TAL NSH
Total/NA	Analysis	300.0		5	363247	08/16/16 21:07	KS	TAL NSH
Dissolved	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Dissolved	Analysis	6010C		1	224143	08/04/16 17:17	HJM	TAL SEA
Total Recoverable	Prep	3005A			223944	08/03/16 15:12	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	224272	08/05/16 13:12	FCW	TAL SEA
Total/NA	Prep	Distill/Ammonia			224141	08/04/16 18:12	EMM	TAL SEA
Total/NA	Analysis	350.1		1	224169	08/05/16 09:44	EMM	TAL SEA
Total/NA	Analysis	353.2		1	223819	08/02/16 13:41	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	223783	08/02/16 10:19	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	223800	08/02/16 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			223739	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	223741	08/01/16 14:21	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	223780	08/02/16 10:00	Z1T	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 07/27/16 00:00
Date Received: 07/28/16 01:30

Lab Sample ID: 580-61335-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	224475	08/10/16 00:33	HDK	TAL SEA

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Laboratory: TestAmerica Nashville

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	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-16
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-16
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-16
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-17
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-16
Mississippi	State Program	4	N/A	06-30-16 *
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-16
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-16
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-16 *
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-16
South Carolina	State Program	4	84009 (001)	02-28-16 *
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-16 *
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-16 *
West Virginia DEP	State Program	3	219	02-28-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Laboratory: TestAmerica Nashville (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
Wisconsin	State Program	5	998020430	08-31-16 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-61335-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-61335-1	0716-09	Water	07/26/16 10:08	07/28/16 01:30
580-61335-2	0716-08	Water	07/26/16 11:06	07/28/16 01:30
580-61335-3	0716-14	Water	07/26/16 12:48	07/28/16 01:30
580-61335-4	0716-95	Water	07/26/16 13:53	07/28/16 01:30
580-61335-5	0716-97	Water	07/26/16 14:52	07/28/16 01:30
580-61335-6	0716-98	Water	07/26/16 16:08	07/28/16 01:30
580-61335-7	0716-01	Water	07/26/16 16:37	07/28/16 01:30
580-61335-8	0716-27	Water	07/26/16 17:58	07/28/16 01:30
580-61335-9	0716-15	Water	07/26/16 10:15	07/28/16 01:30
580-61335-10	0716-16	Water	07/26/16 11:05	07/28/16 01:30
580-61335-11	0716-19	Water	07/26/16 11:55	07/28/16 01:30
580-61335-12	0716-31	Water	07/26/16 11:50	07/28/16 01:30
580-61335-13	0716-20	Water	07/26/16 13:00	07/28/16 01:30
580-61335-14	0716-32	Water	07/26/16 12:55	07/28/16 01:30
580-61335-15	0716-21	Water	07/26/16 13:35	07/28/16 01:30
580-61335-16	0716-22	Water	07/26/16 14:25	07/28/16 01:30
580-61335-17	0716-23	Water	07/26/16 15:05	07/28/16 01:30
580-61335-18	0716-05	Water	07/26/16 15:30	07/28/16 01:30
580-61335-19	0716-12	Water	07/26/16 16:20	07/28/16 01:30
580-61335-20	0716-28	Water	07/26/16 17:55	07/28/16 01:30
580-61335-21	0716-10	Water	07/27/16 10:25	07/28/16 01:30
580-61335-22	0716-11	Water	07/27/16 10:35	07/28/16 01:30
580-61335-23	0716-25	Water	07/27/16 11:39	07/28/16 01:30
580-61335-24	0716-26	Water	07/27/16 13:27	07/28/16 01:30
580-61335-25	0716-96	Water	07/27/16 12:36	07/28/16 01:30
580-61335-26	0716-18	Water	07/27/16 12:50	07/28/16 01:30
580-61335-27	0716-17	Water	07/27/16 12:15	07/28/16 01:30
580-61335-28	0716-29	Water	07/27/16 11:05	07/28/16 01:30
580-61335-29	Trip Blank	Water	07/27/16 00:00	07/28/16 01:30

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

61335

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam G. + Brian M.	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-20833-6350.4
Client Contact: Joantha Guthrie	Phone: 612-940-2980	E-Mail: sarah.murphy@testamericainc.com		Page: Page 4 of 4
Company: Island County Public Works				Job #: 04207033.09

Address: 1 NE 6th Street	Due Date Requested: Standard	Analysis Requested
City: Coupeville	TAT Requested (days):	
State, Zip: WA, 98239		
Phone: 425-289-5455(Tel)	PO #: Purchase Order Requested	
Email: joanthag@co.island.wa.us	WO #:	
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563	
Site:	SSOW#:	

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 - Na2S2O3
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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	8151A_MS - Standard Reporting List						Total Number of Containers	Special Instructions/Note:
			Preservation Code:				S	N	D	D	S	A	N							
0716-09 -1	7/26/16	1008	G	Water	Y	N	X	X	X	X	X	X							8	
0716-08		1106		Water			X	X	X	X	X	X							8	
0716-14 -3		1248		Water			X	X	X	X	X	X							8	
0716-95		1353		Water	N							X							3	
0716-97 -5		1452		Water	N							X							3	
0716-98		1608		Water	N							X							3	
0716-01 -7		1637		Water	Y		X	X	X	X	X	X							8	
0716-27		1758		Water			X	X	X	X	X	X							8	
0716-15 -9		1015		Water			X	X	X	X	X	X							8	
0716-16		1105					X	X	X	X	X	X							8	
0716-19 -11		1155					X	X	X	X	X	X							8	

580-61335 Chain of Custody

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: 7/28/16 1300	Company	Received by:	Date/Time: 7/28/16 1330	Company TA-SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

8/18/2016

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

61335

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam G. & Brian M.	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-20833-6350.4
Client Contact: Joantha Guthrie	Phone: (612)940 - 2480	E-Mail: sarah.murphy@testamericainc.com		Page: Page 4 of 4
Company: Island County Public Works				Job #: 042070330.08
Address: 1 NE 6th Street	Due Date Requested: Standard			
City: Coupeville	TAT Requested (days):			
State, Zip: WA, 98239				
Phone: 425-289-5455(Tel)	PO #: Purchase Order Requested			
Email: joanthag@co.island.wa.us	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	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 - Na2S2O3, 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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	8151A_MS - Standard Reporting List							Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	D	S	A	N								
0716-31	7/26/16	1150	G	Water	Y	N	X	X	X	X	X	X								8	
0716-20 -13		1300		Water																	
0716-32		1255		Water																	
0716-21 -15		1335		Water																	
0716-22		1425		Water																	
0716-23 -17		1505		Water																	
0716-05		1530		Water																	
0716-12 -19		1620		Water																	
0716-28		1755		Water																	
0716-10 -21	7/27/16	1025																			
0716-11		1035																			

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
	7/28/16 1335pm			7/28/16 1330	TA-SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

8/18/2016

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

61335

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-20833-6350.2
Client Contact: Joantha Guthrie	Phone: 612 - 940 - 2980	E-Mail: sarah.murphy@testamericainc.com		Page: Page 2 of 4
Company: Island County Public Works				Job #: 04207033.09
Address: 1 NE 6th Street	Due Date Requested: Standard	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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Coupeville	TAT Requested (days):			Other:
State, Zip: WA, 98239				
Phone: 425-289-5455(Tel)	PO #: Purchase Order Requested			
Email: joanthag@co.island.wa.us	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

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)	5220D - Chemical Oxygen Demand	2320B, 300.0_28D, 300_48HR	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	SM5310_TOC_B - Total Organic Carbon	8260B_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	D	S	A	N		
0716-25 -23	7/27/16	1139	G	Water	Y	N	X	X	X	X	X	X		8	
0716-26		1327		Water	Y		X	X	X	X	X	X	X	10	
0716-96 -25		1236		Water	N							X		3	
0716-18		1250		Water	Y		X	X	X	X	X	X		8	
0716-17 -27		1215		Water	Y		X	X	X	X	X	X		8	
0716-29		1105		Water	Y		X	X	X	X	X	X		8	
Trip blank -29		—	—	Water	N							X		4	← approximately
				Water											

TB Cooler IR2 Cor 2.1 W/O Unc 1.9 TB A2 Cooler Cor 1.7 W/O Unc 1.7 TB Cooler IR2 Cor 5.0 W/O Unc 4.8 TB A2 Cooler Cor 2.6 W/O Unc 2.6
Cooler Dsc Lg Blu/whi @Lab 1615 Cooler Dsc Lg Blu/whi @Lab Cooler Dsc Lg Blu/wh @Lab 1615
Wet/Packs Packing Bub Wet/Packs Packing bub Wet/Packs Packing bub Wet/Packs Packing bub
lab Cor

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: 7/28/16 1335 pm	Company	Received by:	Date/Time: 7/28/16 1330	Company TAS EA
Relinquished by:	Date/Time:				
Relinquished by:	Date/Time:				

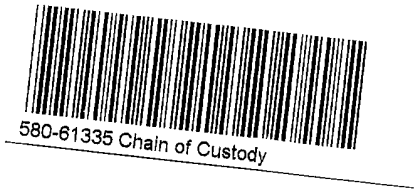
TB Cooler IR2 Cor 4.7 W/O Unc 4.5 TB Cooler IR2 Cor 4.3 W/O Unc 4.1
Cooler Dsc Lg Blu/whi @Lab Cooler Dsc LgGrn/blu @Lab
Wet/Packs Packing bub Wet/Packs Packing bub

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:

8/18/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On 8/13/2016 @ 0920

Time Samples Removed From Cooler 1100 Time Samples Placed In Storage 1201 (2 Hour Window)

1. Tracking # 5770 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 17960353 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 4.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) AES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AES

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AES

I certify that I attached a label with the unique LIMS number to each container (intial) AES

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...# NA

BIS = Broken in shipment

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-40148.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		**Analysis Requested**		Job #: 580-61335-1

| | | |

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-40148.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc				Job #: 580-61335-1

Address: 2960 Foster Creighton Drive,	Due Date Requested: 8/9/2016
City: Nashville	TAT Requested (days):
State, Zip: TN, 37204	
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:
Email:	WO #:
Project Name: Coupeville Solid Waste Facility	Project #: 58009563
Site:	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 - pH 4-5
Z - other (specify)
Other:

Loc: 580
61335

Sample Identification - Client ID (Lab ID)	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)	300_ORGFM_28D/ (MOD) Custom Anions List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0716-21 (580-61335-15)	7/26/16	13:35 Pacific		Water			X	1	
0716-22 (580-61335-16)	7/26/16	14:25 Pacific		Water			X	1	
0716-23 (580-61335-17)	7/26/16	15:05 Pacific		Water			X	1	
0716-05 (580-61335-18)	7/26/16	15:30 Pacific		Water			X	1	
0716-12 (580-61335-19)	7/26/16	16:20 Pacific		Water			X	1	
0716-28 (580-61335-20)	7/26/16	17:55 Pacific		Water			X	1	
0716-10 (580-61335-21)	7/27/16	10:25 Pacific		Water			X	1	
0716-11 (580-61335-22)	7/27/16	10:35 Pacific		Water			X	1	
0716-25 (580-61335-23)	7/27/16	11:39 Pacific		Water			X	1	
0716-26 (580-61335-24)	7/27/16	13:27 Pacific		Water			X	1	
0716-18 (580-61335-26)	7/27/16	12:50 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: B. Hall	Date/Time: 8.12.16 1315	Company SEATA	Received by:	Date/Time: 8/13/16 0928	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

8/18/2016

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Murphy, Sarah A	Carrier Tracking No(s):	COC No: 580-40148.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: sarah.murphy@testamericainc.com		Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Analysis Requested		Job #: 580-61335-1

Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/9/2016
City: Nashville	TAT Requested (days):
State, Zip: TN, 37204	
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:
Email:	WO #:
Project Name: Coupeville Solid Waste Facility	Project #: 58009563
Site:	SSOW#:

Preservation Codes:
A - HCl
B - NaO
C - Zn
D - Nitr
E - NaH
F - MeO
G - Am
H - Asc
I - Ice
J - DI Water
K - EDTA
L - EDA
V - MCAA
W - ph 4-5
Z - other (specify)
Other:

Loc: 580 61335 #1 I

Sample Identification - Client ID (Lab ID)	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)	300_ORGFM_28D/ (MOD) Custom Anions List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0716-17 (580-61335-27)	7/27/16	12:15 Pacific		Water			X	1	
0716-29 (580-61335-28)	7/27/16	11:05 Pacific		Water			X	1	

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	B. Hall	8.12.16 1315	SEATA		8/13/16 0920	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-61335-1

Login Number: 61335
List Number: 1
Creator: Murphy, Sarah A

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-61335-1

Login Number: 61335
List Number: 2
Creator: Stvartak, Anthony Q

List Source: TestAmerica Nashville
List Creation: 08/13/16 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 4Q 2016

Project Details

Project No.	04207033.09	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Adlington	**Data Level**	Level II
Date	11/22/2016	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-63607-1	Samples were received within holding times but above temperature control levels. Vinyl Chloride subcontracted to Onsite Environmental to achieve desired reporting limit, see case narritive.	Test America
580-63627-1	Samples arrived in good condition. Vinyl Chloride subcontracted to Onsite Environmental to achieve desired reporting limit.	Test America
580-63794-1	Insufficient sample preservation for Total Metal sample bottle only, see case narrative. Vinyl Chloride subcontracted to Onsite Environmental to achieve desired reporting limit.	Test America
16-26997	Samples arrived in good condition.	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-63607-1	X	X	X	X	X	X	-
580-63627-1	X	X	X	X	X	X	X
580-63794-1	X	X	X	X	X	X	-
16-26997	-	-	X	-	-	-	-

X = Analysis performed on at least one sample in sample group.

- = Analysis not performed on any sample in sample group.

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-63607-1, 580-63627-1, 580-63794-1, and 16-26997)
LCS/LCSD	Acceptable	See case narrative (580-63607-1, 580-63627-1, 580-63794-1, and 16-26997)
Duplicates	Acceptable	See case narrative (580-63607-1, 580-63627-1, 580-63794-1, and 16-26997)
MS/MSD	Acceptable	See case narrative (580-63607-1, 580-63627-1, 580-63794-1, and 16-26997)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.
Trip Blank	580-63607-1	None.	No detections.
Trip Blank	580-63627-1	None.	No detections.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S (1016-19)**	**C1S (1016-31)**	**RPD (%)**	**N3D (1016-20)**	**N3D (1016-32)**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.61	0.57	6.7%	0.2 U	0.2 U	0.0%
1,1-Dichloroethylene	ug/L	0.1 U	0.14	**33.3%**	0.1 U	0.1 U	0.0%
Alkalinity	mg/L	490	480	2.0%	250	240	4.1%
Arsenic	mg/L	0.0022	0.0022	0.0%	0.008	0.0084	4.8%
Barium	mg/L	0.048	0.048	0.0%	0.026	0.027	3.8%
Bicarbonate Alkalinity as CaCO3	mg/L	490	480	2.1%	250	240	4.1%
Calcium	mg/L	160	160	0.0%	72	70	2.8%
Chemical Oxygen Demand	mg/L	19	14	**30.3%**	10 U	10 U	0.0%
Chloride	mg/L	4.6	4.6	0.0%	38	38	0.0%
Chromium	mg/L	0.0099	0.01	1.0%	0.0004 U	0.0004 U	0.0%
cis-1,2-Dichloroethene	ug/L	0.38	0.37	2.7%	0.2 U	0.2 U	0.0%
Fluoride	ug/L	0.61	0.61	0.0%	0.2 U	0.2 U	0.0%
Magnesium	mg/L	65	66	1.5%	27	26	3.8%
Manganese	mg/L	0.02 U	0.02 U	0.0%	0.027	0.027	0.0%
Nickel	mg/L	0.0071	0.0071	0.0%	0.003 U	0.003 U	0.0%
Nitrate Nitrite as N	mg/L	4.6	4.7	2.2%	0.25 U	0.25 U	0.0%
Potassium	mg/L	6	6	0.0%	6.3	6.2	1.6%
Sodium	mg/L	31	31	0.0%	23	22	4.4%
Sulfate	mg/L	200	200	0.0%	24	24	0.0%
Total Dissolved Solids	mg/L	850	860	1.2%	370	380	2.7%
Total Organic Carbon	mg/L	3.9	7.6	**64.4%**	1.1	1.1	0.0%
Trichloroethylene	ug/L	0.25	0.24	4.1%	0.2 U	0.2 U	0.0%
Trichlorofluoromethane	ug/L	4.8	4.3	11.0%	0.5 U	0.5 U	0.0%
Vanadium	mg/L	0.004	0.004 U	0.0%	0.004 U	0.004 U	0.0%

U = Reporting limit used in place of a non-detection for the given parameter to allow for calculation.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
*	RPD of the LCS and LCSD exceed the control limits	580-63627-1
F1	MS and/or MSD Recovery is outside acceptance limits.	580-63627-1, 580-63794-1

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-63607-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
11/9/2016 11:27:02 AM

Cathy Gamble, Project Management Assistant I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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Job ID: 580-63607-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 10/25/2016 4:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0º C, 5.7º C and 7.4º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: 1016-21 (580-63607-1), 1016-20 (580-63607-2), 1016-32 (580-63607-3), 1016-15 (580-63607-4), 1016-16 (580-63607-5), 1016-99 (580-63607-6), 1016-100 (580-63607-7), 1016-14 (580-63607-8), 1016-11 (580-63607-9), 1016-10 (580-63607-10) and Trip Blank (580-63607-11). The lab proceeded with analysis.

The client requires a Reporting Limit of 0.02 ug/L for Vinyl Chloride, currently the lab cannot reach this detection limit. The client has given us permission to send the Vinyl Chloride to OnSite Environmental.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-231665 recovered above the upper control limit for Hexachlorobutadiene, 2,2-Dichloropropane, dichlorodifluoromethane, and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 1016-21 (580-63607-1), 1016-20 (580-63607-2), 1016-32 (580-63607-3), 1016-15 (580-63607-4), 1016-16 (580-63607-5), 1016-99 (580-63607-6), 1016-100 (580-63607-7), 1016-14 (580-63607-8), 1016-11 (580-63607-9), 1016-10 (580-63607-10), Trip Blank (580-63607-11) and (CCVIS 580-231665/16).

Method(s) 8260C: The following sample was re-analyzed for Trichlorofluoromethane due to the CCV failing high in the original analysis with detection: 1016-21 (580-63607-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract non-Sister
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method 8260_LL (Vinyl Chloride only): This method was subcontracted to OnSite Environmental Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-21
Date Collected: 10/24/16 11:06
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 20:16	1
Bromomethane	ND		1.0		ug/L			11/04/16 20:16	1
Chloroethane	ND		0.50		ug/L			11/04/16 20:16	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 20:16	1
Methyl iodide	ND		0.50		ug/L			11/04/16 20:16	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 20:16	1
Acetone	ND		2.0		ug/L			11/04/16 20:16	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 20:16	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 20:16	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 20:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 20:16	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 20:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 20:16	1
2-Butanone	ND		15		ug/L			11/04/16 20:16	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 20:16	1
Chloroform	ND		0.20		ug/L			11/04/16 20:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 20:16	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 20:16	1
Benzene	ND		0.20		ug/L			11/04/16 20:16	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 20:16	1
Trichloroethene	ND		0.20		ug/L			11/04/16 20:16	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 20:16	1
Dibromomethane	ND		0.20		ug/L			11/04/16 20:16	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 20:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 20:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 20:16	1
Toluene	ND		0.40		ug/L			11/04/16 20:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 20:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 20:16	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 20:16	1
2-Hexanone	ND		2.0		ug/L			11/04/16 20:16	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 20:16	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 20:16	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 20:16	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 20:16	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 20:16	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 20:16	1
o-Xylene	ND		0.50		ug/L			11/04/16 20:16	1
Styrene	ND		0.50		ug/L			11/04/16 20:16	1
Bromoform	ND		0.50		ug/L			11/04/16 20:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 20:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 20:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 20:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 20:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 20:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*11/04/16 20:16*	*1*

Client Sample ID: 1016-21
Date Collected: 10/24/16 11:06
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/04/16 20:16*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/04/16 20:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*11/04/16 20:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/04/16 20:16*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**1.1**		0.50		ug/L			11/07/16 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*75 - 125*		*11/07/16 13:48*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/07/16 13:48*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*11/07/16 13:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/07/16 13:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*11/07/16 13:48*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		11/02/16 09:11	11/02/16 18:12	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 18:12	1
Magnesium	**47**		1.1		mg/L		11/02/16 09:11	11/02/16 18:12	1
Manganese	ND		0.020		mg/L		11/02/16 09:11	11/02/16 18:12	1
Potassium	**6.0**		3.3		mg/L		11/02/16 09:11	11/02/16 18:12	1
Sodium	**28**		2.0		mg/L		11/02/16 09:11	11/02/16 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Arsenic	**0.0032**		0.0010		mg/L		11/01/16 10:23	11/01/16 23:21	1
Barium	**0.032**		0.0012		mg/L		11/01/16 10:23	11/01/16 23:21	1
Beryllium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Cadmium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Chromium	**0.011**		0.00040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Cobalt	ND		0.00040		mg/L		11/01/16 10:23	11/02/16 10:47	1
Copper	ND		0.0020		mg/L		11/01/16 10:23	11/01/16 23:21	1
Lead	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Nickel	ND		0.0030		mg/L		11/01/16 10:23	11/01/16 23:21	1
Selenium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:21	1
Silver	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Thallium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:21	1
Vanadium	**0.0060**		0.0040		mg/L		11/01/16 10:23	11/01/16 23:21	1
Zinc	ND		0.0070		mg/L		11/01/16 10:23	11/01/16 23:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.26**		0.20		mg/L			11/02/16 12:50	1
Chloride	**38**		0.90		mg/L			11/02/16 12:50	1
Sulfate	**44**		1.2		mg/L			11/02/16 12:50	1
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	**6.1**		0.50		mg/L			10/31/16 16:29	10

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-21
Date Collected: 10/24/16 11:06
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.4**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**440**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**440**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**600**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-20
Date Collected: 10/24/16 12:00
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 20:44	1
Bromomethane	ND		1.0		ug/L			11/04/16 20:44	1
Chloroethane	ND		0.50		ug/L			11/04/16 20:44	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 20:44	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 20:44	1
Methyl iodide	ND		0.50		ug/L			11/04/16 20:44	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 20:44	1
Acetone	ND		2.0		ug/L			11/04/16 20:44	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 20:44	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 20:44	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 20:44	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 20:44	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 20:44	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 20:44	1
2-Butanone	ND		15		ug/L			11/04/16 20:44	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 20:44	1
Chloroform	ND		0.20		ug/L			11/04/16 20:44	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 20:44	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 20:44	1
Benzene	ND		0.20		ug/L			11/04/16 20:44	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 20:44	1
Trichloroethene	ND		0.20		ug/L			11/04/16 20:44	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 20:44	1
Dibromomethane	ND		0.20		ug/L			11/04/16 20:44	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 20:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 20:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 20:44	1
Toluene	ND		0.40		ug/L			11/04/16 20:44	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 20:44	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 20:44	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 20:44	1
2-Hexanone	ND		2.0		ug/L			11/04/16 20:44	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 20:44	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 20:44	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 20:44	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 20:44	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 20:44	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 20:44	1
o-Xylene	ND		0.50		ug/L			11/04/16 20:44	1
Styrene	ND		0.50		ug/L			11/04/16 20:44	1
Bromoform	ND		0.50		ug/L			11/04/16 20:44	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 20:44	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 20:44	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 20:44	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 20:44	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 20:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 20:44	1

Client Sample ID: 1016-20

Date Collected: 10/24/16 12:00
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/04/16 20:44*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*11/04/16 20:44*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/04/16 20:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/04/16 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/04/16 20:44*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**72**		1.1		mg/L		11/02/16 09:11	11/02/16 18:19	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 18:19	1
Magnesium	**27**		1.1		mg/L		11/02/16 09:11	11/02/16 18:19	1
Manganese	**0.027**		0.020		mg/L		11/02/16 09:11	11/02/16 18:19	1
Potassium	**6.3**		3.3		mg/L		11/02/16 09:11	11/02/16 18:19	1
Sodium	**23**		2.0		mg/L		11/02/16 09:11	11/02/16 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Arsenic	**0.0080**		0.0010		mg/L		11/01/16 10:23	11/01/16 23:26	1
Barium	**0.026**		0.0012		mg/L		11/01/16 10:23	11/01/16 23:26	1
Beryllium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Cadmium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Chromium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Cobalt	ND		0.00040		mg/L		11/01/16 10:23	11/02/16 10:52	1
Copper	ND		0.0020		mg/L		11/01/16 10:23	11/01/16 23:26	1
Lead	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Nickel	ND		0.0030		mg/L		11/01/16 10:23	11/01/16 23:26	1
Selenium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:26	1
Silver	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Thallium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:26	1
Vanadium	ND		0.0040		mg/L		11/01/16 10:23	11/01/16 23:26	1
Zinc	ND		0.0070		mg/L		11/01/16 10:23	11/01/16 23:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 13:09	1
Chloride	**38**		0.90		mg/L			11/02/16 13:09	1
Sulfate	**24**		1.2		mg/L			11/02/16 13:09	1
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:30	1
Total Organic Carbon	**1.1**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**370**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-32
Date Collected: 10/24/16 12:10
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 21:12	1
Bromomethane	ND		1.0		ug/L			11/04/16 21:12	1
Chloroethane	ND		0.50		ug/L			11/04/16 21:12	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 21:12	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 21:12	1
Methyl iodide	ND		0.50		ug/L			11/04/16 21:12	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 21:12	1
Acetone	ND		2.0		ug/L			11/04/16 21:12	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 21:12	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 21:12	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 21:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 21:12	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 21:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 21:12	1
2-Butanone	ND		15		ug/L			11/04/16 21:12	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 21:12	1
Chloroform	ND		0.20		ug/L			11/04/16 21:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 21:12	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 21:12	1
Benzene	ND		0.20		ug/L			11/04/16 21:12	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 21:12	1
Trichloroethene	ND		0.20		ug/L			11/04/16 21:12	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 21:12	1
Dibromomethane	ND		0.20		ug/L			11/04/16 21:12	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 21:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 21:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 21:12	1
Toluene	ND		0.40		ug/L			11/04/16 21:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 21:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 21:12	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 21:12	1
2-Hexanone	ND		2.0		ug/L			11/04/16 21:12	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 21:12	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 21:12	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 21:12	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 21:12	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 21:12	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 21:12	1
o-Xylene	ND		0.50		ug/L			11/04/16 21:12	1
Styrene	ND		0.50		ug/L			11/04/16 21:12	1
Bromoform	ND		0.50		ug/L			11/04/16 21:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 21:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 21:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 21:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 21:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 21:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 21:12	1

Client Sample ID: 1016-32
Date Collected: 10/24/16 12:10
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/04/16 21:12*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/04/16 21:12*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/04/16 21:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*11/04/16 21:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/04/16 21:12*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**70**		1.1		mg/L		11/02/16 09:11	11/02/16 18:25	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 18:25	1
Magnesium	**26**		1.1		mg/L		11/02/16 09:11	11/02/16 18:25	1
Manganese	**0.027**		0.020		mg/L		11/02/16 09:11	11/02/16 18:25	1
Potassium	**6.2**		3.3		mg/L		11/02/16 09:11	11/02/16 18:25	1
Sodium	**22**		2.0		mg/L		11/02/16 09:11	11/02/16 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Arsenic	**0.0084**		0.0010		mg/L		11/01/16 10:23	11/01/16 23:30	1
Barium	**0.027**		0.0012		mg/L		11/01/16 10:23	11/01/16 23:30	1
Beryllium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Cadmium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Chromium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Cobalt	ND		0.00040		mg/L		11/01/16 10:23	11/02/16 10:56	1
Copper	ND		0.0020		mg/L		11/01/16 10:23	11/01/16 23:30	1
Lead	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Nickel	ND		0.0030		mg/L		11/01/16 10:23	11/01/16 23:30	1
Selenium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:30	1
Silver	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Thallium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:30	1
Vanadium	ND		0.0040		mg/L		11/01/16 10:23	11/01/16 23:30	1
Zinc	ND		0.0070		mg/L		11/01/16 10:23	11/01/16 23:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 13:27	1
Chloride	**38**		0.90		mg/L			11/02/16 13:27	1
Sulfate	**24**		1.2		mg/L			11/02/16 13:27	1
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:31	1
Total Organic Carbon	**1.1**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**380**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-15
Date Collected: 10/24/16 13:27
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 21:40	1
Bromomethane	ND		1.0		ug/L			11/04/16 21:40	1
Chloroethane	ND		0.50		ug/L			11/04/16 21:40	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 21:40	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 21:40	1
Methyl iodide	ND		0.50		ug/L			11/04/16 21:40	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 21:40	1
Acetone	ND		2.0		ug/L			11/04/16 21:40	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 21:40	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 21:40	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 21:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 21:40	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 21:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 21:40	1
2-Butanone	ND		15		ug/L			11/04/16 21:40	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 21:40	1
Chloroform	ND		0.20		ug/L			11/04/16 21:40	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 21:40	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 21:40	1
Benzene	ND		0.20		ug/L			11/04/16 21:40	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 21:40	1
Trichloroethene	ND		0.20		ug/L			11/04/16 21:40	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 21:40	1
Dibromomethane	ND		0.20		ug/L			11/04/16 21:40	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 21:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 21:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 21:40	1
Toluene	ND		0.40		ug/L			11/04/16 21:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 21:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 21:40	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 21:40	1
2-Hexanone	ND		2.0		ug/L			11/04/16 21:40	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 21:40	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 21:40	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 21:40	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 21:40	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 21:40	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 21:40	1
o-Xylene	ND		0.50		ug/L			11/04/16 21:40	1
Styrene	ND		0.50		ug/L			11/04/16 21:40	1
Bromoform	ND		0.50		ug/L			11/04/16 21:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 21:40	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 21:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 21:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 21:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 21:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 21:40	1

Client Sample ID: 1016-15
Date Collected: 10/24/16 13:27
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/04/16 21:40*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/04/16 21:40*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/04/16 21:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/04/16 21:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/04/16 21:40*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		11/02/16 09:11	11/02/16 18:32	1
Iron	**0.31**		0.30		mg/L		11/02/16 09:11	11/02/16 18:32	1
Magnesium	**100**		1.1		mg/L		11/02/16 09:11	11/02/16 18:32	1
Manganese	**0.25**		0.020		mg/L		11/02/16 09:11	11/02/16 18:32	1
Potassium	**9.9**		3.3		mg/L		11/02/16 09:11	11/02/16 18:32	1
Sodium	**47**		2.0		mg/L		11/02/16 09:11	11/02/16 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Arsenic	**0.0051**		0.0010		mg/L		11/01/16 10:23	11/01/16 23:35	1
Barium	**0.099**		0.0012		mg/L		11/01/16 10:23	11/01/16 23:35	1
Beryllium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Cadmium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Chromium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Cobalt	ND		0.00040		mg/L		11/01/16 10:23	11/02/16 11:01	1
Copper	ND		0.0020		mg/L		11/01/16 10:23	11/01/16 23:35	1
Lead	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Nickel	**0.017**		0.0030		mg/L		11/01/16 10:23	11/01/16 23:35	1
Selenium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:35	1
Silver	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Thallium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 23:35	1
Vanadium	ND		0.0040		mg/L		11/01/16 10:23	11/01/16 23:35	1
Zinc	ND		0.0070		mg/L		11/01/16 10:23	11/01/16 23:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.31**		0.20		mg/L			11/02/16 13:46	1
Chloride	**120**		9.0		mg/L			11/03/16 09:20	10
Sulfate	**130**		12		mg/L			11/03/16 09:20	10
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:35	1
Total Organic Carbon	**4.0**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**500**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**500**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**890**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-16
Date Collected: 10/24/16 14:23
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 22:08	1
Bromomethane	ND		1.0		ug/L			11/04/16 22:08	1
Chloroethane	ND		0.50		ug/L			11/04/16 22:08	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 22:08	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 22:08	1
Methyl iodide	ND		0.50		ug/L			11/04/16 22:08	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 22:08	1
Acetone	ND		2.0		ug/L			11/04/16 22:08	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 22:08	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 22:08	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 22:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 22:08	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 22:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 22:08	1
2-Butanone	ND		15		ug/L			11/04/16 22:08	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 22:08	1
Chloroform	ND		0.20		ug/L			11/04/16 22:08	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 22:08	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 22:08	1
Benzene	ND		0.20		ug/L			11/04/16 22:08	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 22:08	1
Trichloroethene	ND		0.20		ug/L			11/04/16 22:08	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 22:08	1
Dibromomethane	ND		0.20		ug/L			11/04/16 22:08	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 22:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 22:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 22:08	1
Toluene	ND		0.40		ug/L			11/04/16 22:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 22:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 22:08	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 22:08	1
2-Hexanone	ND		2.0		ug/L			11/04/16 22:08	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 22:08	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 22:08	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 22:08	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 22:08	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 22:08	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 22:08	1
o-Xylene	ND		0.50		ug/L			11/04/16 22:08	1
Styrene	ND		0.50		ug/L			11/04/16 22:08	1
Bromoform	ND		0.50		ug/L			11/04/16 22:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 22:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 22:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 22:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 22:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 22:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 22:08	1

Client Sample ID: 1016-16

Date Collected: 10/24/16 14:23
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/04/16 22:08*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/04/16 22:08*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/04/16 22:08*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*11/04/16 22:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/04/16 22:08*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**37**		1.1		mg/L		11/02/16 09:11	11/02/16 18:38	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 18:38	1
Magnesium	**35**		1.1		mg/L		11/02/16 09:11	11/02/16 18:38	1
Manganese	ND		0.020		mg/L		11/02/16 09:11	11/02/16 18:38	1
Potassium	ND		3.3		mg/L		11/02/16 09:11	11/02/16 18:38	1
Sodium	**12**		2.0		mg/L		11/02/16 09:11	11/02/16 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Arsenic	**0.0026**		0.0010		mg/L		11/02/16 09:11	11/02/16 20:34	1
Barium	**0.016**		0.0012		mg/L		11/02/16 09:11	11/02/16 20:34	1
Beryllium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Cadmium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Chromium	**0.0034**		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Cobalt	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Copper	ND		0.0020		mg/L		11/02/16 09:11	11/02/16 20:34	1
Lead	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Nickel	**0.0080**		0.0030		mg/L		11/02/16 09:11	11/02/16 20:34	1
Selenium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:34	1
Silver	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Thallium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:34	1
Vanadium	**0.0059**		0.0040		mg/L		11/02/16 09:11	11/02/16 20:34	1
Zinc	ND		0.0070		mg/L		11/02/16 09:11	11/02/16 20:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 14:04	1
Chloride	**4.9**		0.90		mg/L			11/02/16 14:04	1
Sulfate	**18**		1.2		mg/L			11/02/16 14:04	1
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	**6.0**		0.50		mg/L			10/31/16 16:36	10
Total Organic Carbon	**2.4**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**210**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**210**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**310**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-99
Date Collected: 10/24/16 14:30
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 22:37	1
Bromomethane	ND		1.0		ug/L			11/04/16 22:37	1
Chloroethane	ND		0.50		ug/L			11/04/16 22:37	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 22:37	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 22:37	1
Methyl iodide	ND		0.50		ug/L			11/04/16 22:37	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 22:37	1
Acetone	ND		2.0		ug/L			11/04/16 22:37	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 22:37	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 22:37	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 22:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 22:37	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 22:37	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 22:37	1
2-Butanone	ND		15		ug/L			11/04/16 22:37	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 22:37	1
Chloroform	ND		0.20		ug/L			11/04/16 22:37	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 22:37	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 22:37	1
Benzene	ND		0.20		ug/L			11/04/16 22:37	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 22:37	1
Trichloroethene	ND		0.20		ug/L			11/04/16 22:37	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 22:37	1
Dibromomethane	ND		0.20		ug/L			11/04/16 22:37	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 22:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 22:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 22:37	1
Toluene	ND		0.40		ug/L			11/04/16 22:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 22:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 22:37	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 22:37	1
2-Hexanone	ND		2.0		ug/L			11/04/16 22:37	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 22:37	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 22:37	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 22:37	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 22:37	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 22:37	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 22:37	1
o-Xylene	ND		0.50		ug/L			11/04/16 22:37	1
Styrene	ND		0.50		ug/L			11/04/16 22:37	1
Bromoform	ND		0.50		ug/L			11/04/16 22:37	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 22:37	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 22:37	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 22:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 22:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 22:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 22:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-99
Date Collected: 10/24/16 14:30
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		11/04/16 22:37	1
Trifluorotoluene (Surr)	98		74 - 118		11/04/16 22:37	1
Dibromofluoromethane (Surr)	101		42 - 132		11/04/16 22:37	1
4-Bromofluorobenzene (Surr)	101		81 - 120		11/04/16 22:37	1
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		11/04/16 22:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-100
Date Collected: 10/24/16 12:20
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 23:05	1
Bromomethane	ND		1.0		ug/L			11/04/16 23:05	1
Chloroethane	ND		0.50		ug/L			11/04/16 23:05	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 23:05	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 23:05	1
Methyl iodide	ND		0.50		ug/L			11/04/16 23:05	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 23:05	1
Acetone	ND		2.0		ug/L			11/04/16 23:05	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 23:05	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 23:05	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 23:05	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 23:05	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 23:05	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 23:05	1
2-Butanone	ND		15		ug/L			11/04/16 23:05	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 23:05	1
Chloroform	ND		0.20		ug/L			11/04/16 23:05	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 23:05	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 23:05	1
Benzene	ND		0.20		ug/L			11/04/16 23:05	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 23:05	1
Trichloroethene	ND		0.20		ug/L			11/04/16 23:05	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 23:05	1
Dibromomethane	ND		0.20		ug/L			11/04/16 23:05	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 23:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 23:05	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 23:05	1
Toluene	ND		0.40		ug/L			11/04/16 23:05	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 23:05	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 23:05	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 23:05	1
2-Hexanone	ND		2.0		ug/L			11/04/16 23:05	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 23:05	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 23:05	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 23:05	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 23:05	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 23:05	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 23:05	1
o-Xylene	ND		0.50		ug/L			11/04/16 23:05	1
Styrene	ND		0.50		ug/L			11/04/16 23:05	1
Bromoform	ND		0.50		ug/L			11/04/16 23:05	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 23:05	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 23:05	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 23:05	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 23:05	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 23:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 23:05	1

Client Sample ID: 1016-100
Date Collected: 10/24/16 12:20
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		11/04/16 23:05	1
Trifluorotoluene (Surr)	98		74 - 118		11/04/16 23:05	1
Dibromofluoromethane (Surr)	99		42 - 132		11/04/16 23:05	1
4-Bromofluorobenzene (Surr)	102		81 - 120		11/04/16 23:05	1
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		11/04/16 23:05	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-14
Date Collected: 10/24/16 15:32
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 23:33	1
Bromomethane	ND		1.0		ug/L			11/04/16 23:33	1
Chloroethane	ND		0.50		ug/L			11/04/16 23:33	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 23:33	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 23:33	1
Methyl iodide	ND		0.50		ug/L			11/04/16 23:33	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 23:33	1
Acetone	ND		2.0		ug/L			11/04/16 23:33	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 23:33	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 23:33	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 23:33	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 23:33	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 23:33	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 23:33	1
2-Butanone	ND		15		ug/L			11/04/16 23:33	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 23:33	1
Chloroform	ND		0.20		ug/L			11/04/16 23:33	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 23:33	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 23:33	1
Benzene	ND		0.20		ug/L			11/04/16 23:33	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 23:33	1
Trichloroethene	ND		0.20		ug/L			11/04/16 23:33	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 23:33	1
Dibromomethane	ND		0.20		ug/L			11/04/16 23:33	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 23:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 23:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 23:33	1
Toluene	ND		0.40		ug/L			11/04/16 23:33	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 23:33	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 23:33	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 23:33	1
2-Hexanone	ND		2.0		ug/L			11/04/16 23:33	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 23:33	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 23:33	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 23:33	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 23:33	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 23:33	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 23:33	1
o-Xylene	ND		0.50		ug/L			11/04/16 23:33	1
Styrene	ND		0.50		ug/L			11/04/16 23:33	1
Bromoform	ND		0.50		ug/L			11/04/16 23:33	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 23:33	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 23:33	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 23:33	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 23:33	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 23:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 23:33	1

Client Sample ID: 1016-14
Date Collected: 10/24/16 15:32
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*11/04/16 23:33*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/04/16 23:33*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/04/16 23:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/04/16 23:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/04/16 23:33*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**54**		1.1		mg/L		11/02/16 09:11	11/02/16 18:55	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 18:55	1
Magnesium	**70**		1.1		mg/L		11/02/16 09:11	11/02/16 18:55	1
Manganese	**0.15**		0.020		mg/L		11/02/16 09:11	11/02/16 18:55	1
Potassium	**10**		3.3		mg/L		11/02/16 09:11	11/02/16 18:55	1
Sodium	**44**		2.0		mg/L		11/02/16 09:11	11/02/16 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Arsenic	**0.0090**		0.0010		mg/L		11/02/16 09:11	11/02/16 20:39	1
Barium	**0.061**		0.0012		mg/L		11/02/16 09:11	11/02/16 20:39	1
Beryllium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Cadmium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Chromium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Cobalt	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Copper	ND		0.0020		mg/L		11/02/16 09:11	11/02/16 20:39	1
Lead	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Nickel	ND		0.0030		mg/L		11/02/16 09:11	11/02/16 20:39	1
Selenium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:39	1
Silver	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Thallium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:39	1
Vanadium	ND		0.0040		mg/L		11/02/16 09:11	11/02/16 20:39	1
Zinc	ND		0.0070		mg/L		11/02/16 09:11	11/02/16 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 14:22	1
Chloride	**73**		0.90		mg/L			11/02/16 14:22	1
Sulfate	**35**		1.2		mg/L			11/02/16 14:22	1
Ammonia	**0.22**		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:37	1
Total Organic Carbon	**2.6**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**540**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-11
Date Collected: 10/24/16 16:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 00:01	1
Bromomethane	ND		1.0		ug/L			11/05/16 00:01	1
Chloroethane	ND		0.50		ug/L			11/05/16 00:01	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 00:01	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 00:01	1
Methyl iodide	ND		0.50		ug/L			11/05/16 00:01	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 00:01	1
Acetone	ND		2.0		ug/L			11/05/16 00:01	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 00:01	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 00:01	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 00:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 00:01	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 00:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 00:01	1
2-Butanone	ND		15		ug/L			11/05/16 00:01	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 00:01	1
Chloroform	ND		0.20		ug/L			11/05/16 00:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 00:01	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 00:01	1
Benzene	ND		0.20		ug/L			11/05/16 00:01	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 00:01	1
Trichloroethene	ND		0.20		ug/L			11/05/16 00:01	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 00:01	1
Dibromomethane	ND		0.20		ug/L			11/05/16 00:01	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 00:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 00:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 00:01	1
Toluene	ND		0.40		ug/L			11/05/16 00:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 00:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 00:01	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 00:01	1
2-Hexanone	ND		2.0		ug/L			11/05/16 00:01	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 00:01	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 00:01	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 00:01	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 00:01	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 00:01	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 00:01	1
o-Xylene	ND		0.50		ug/L			11/05/16 00:01	1
Styrene	ND		0.50		ug/L			11/05/16 00:01	1
Bromoform	ND		0.50		ug/L			11/05/16 00:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 00:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 00:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 00:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 00:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 00:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 00:01	1

Client Sample ID: 1016-11
Date Collected: 10/24/16 16:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 00:01*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*11/05/16 00:01*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*11/05/16 00:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/05/16 00:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/05/16 00:01*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		11/02/16 09:11	11/02/16 19:02	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 19:02	1
Magnesium	**52**		1.1		mg/L		11/02/16 09:11	11/02/16 19:02	1
Manganese	**0.20**		0.020		mg/L		11/02/16 09:11	11/02/16 19:02	1
Potassium	**6.7**		3.3		mg/L		11/02/16 09:11	11/02/16 19:02	1
Sodium	**35**		2.0		mg/L		11/02/16 09:11	11/02/16 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Arsenic	**0.0067**		0.0010		mg/L		11/02/16 09:11	11/02/16 20:43	1
Barium	**0.032**		0.0012		mg/L		11/02/16 09:11	11/02/16 20:43	1
Beryllium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Cadmium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Chromium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Cobalt	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Copper	ND		0.0020		mg/L		11/02/16 09:11	11/02/16 20:43	1
Lead	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Nickel	ND		0.0030		mg/L		11/02/16 09:11	11/02/16 20:43	1
Selenium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:43	1
Silver	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Thallium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:43	1
Vanadium	ND		0.0040		mg/L		11/02/16 09:11	11/02/16 20:43	1
Zinc	ND		0.0070		mg/L		11/02/16 09:11	11/02/16 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 14:41	1
Chloride	**63**		0.90		mg/L			11/02/16 14:41	1
Sulfate	**30**		1.2		mg/L			11/02/16 14:41	1
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:38	1
Total Organic Carbon	**2.5**		1.0		mg/L			10/28/16 17:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**510**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-10
Date Collected: 10/24/16 17:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 00:29	1
Bromomethane	ND		1.0		ug/L			11/05/16 00:29	1
Chloroethane	ND		0.50		ug/L			11/05/16 00:29	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 00:29	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 00:29	1
Methyl iodide	ND		0.50		ug/L			11/05/16 00:29	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 00:29	1
Acetone	ND		2.0		ug/L			11/05/16 00:29	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 00:29	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 00:29	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 00:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 00:29	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 00:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 00:29	1
2-Butanone	ND		15		ug/L			11/05/16 00:29	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 00:29	1
Chloroform	ND		0.20		ug/L			11/05/16 00:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 00:29	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 00:29	1
Benzene	ND		0.20		ug/L			11/05/16 00:29	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 00:29	1
Trichloroethene	ND		0.20		ug/L			11/05/16 00:29	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 00:29	1
Dibromomethane	ND		0.20		ug/L			11/05/16 00:29	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 00:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 00:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 00:29	1
Toluene	ND		0.40		ug/L			11/05/16 00:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 00:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 00:29	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 00:29	1
2-Hexanone	ND		2.0		ug/L			11/05/16 00:29	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 00:29	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 00:29	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 00:29	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 00:29	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 00:29	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 00:29	1
o-Xylene	ND		0.50		ug/L			11/05/16 00:29	1
Styrene	ND		0.50		ug/L			11/05/16 00:29	1
Bromoform	ND		0.50		ug/L			11/05/16 00:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 00:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 00:29	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 00:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 00:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 00:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 00:29	1

Client Sample ID: 1016-10

Date Collected: 10/24/16 17:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 00:29*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/05/16 00:29*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 00:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*11/05/16 00:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*11/05/16 00:29*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		11/02/16 09:11	11/02/16 19:08	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 19:08	1
Magnesium	**54**		1.1		mg/L		11/02/16 09:11	11/02/16 19:08	1
Manganese	**0.16**		0.020		mg/L		11/02/16 09:11	11/02/16 19:08	1
Potassium	**7.6**		3.3		mg/L		11/02/16 09:11	11/02/16 19:08	1
Sodium	**38**		2.0		mg/L		11/02/16 09:11	11/02/16 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Arsenic	**0.0089**		0.0010		mg/L		11/02/16 09:11	11/02/16 20:48	1
Barium	**0.040**		0.0012		mg/L		11/02/16 09:11	11/02/16 20:48	1
Beryllium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Cadmium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Chromium	**0.00050**		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Cobalt	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Copper	ND		0.0020		mg/L		11/02/16 09:11	11/02/16 20:48	1
Lead	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Nickel	ND		0.0030		mg/L		11/02/16 09:11	11/02/16 20:48	1
Selenium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:48	1
Silver	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Thallium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 20:48	1
Vanadium	ND		0.0040		mg/L		11/02/16 09:11	11/02/16 20:48	1
Zinc	ND		0.0070		mg/L		11/02/16 09:11	11/02/16 20:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 14:59	1
Chloride	**77**		0.90		mg/L			11/02/16 14:59	1
Sulfate	**30**		1.2		mg/L			11/02/16 14:59	1
Ammonia	ND		0.20		mg/L		10/28/16 13:29	10/31/16 10:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:39	1
Total Organic Carbon	**2.6**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			10/27/16 17:44	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			10/27/16 17:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/27/16 17:44	1
Total Dissolved Solids	**510**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client Sample ID: Trip Blank
Date Collected: 10/24/16 00:00
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 17:55	1
Bromomethane	ND		1.0		ug/L			11/04/16 17:55	1
Chloroethane	ND		0.50		ug/L			11/04/16 17:55	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 17:55	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 17:55	1
Methyl iodide	ND		0.50		ug/L			11/04/16 17:55	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 17:55	1
Acetone	ND		2.0		ug/L			11/04/16 17:55	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 17:55	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 17:55	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 17:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 17:55	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 17:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 17:55	1
2-Butanone	ND		15		ug/L			11/04/16 17:55	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 17:55	1
Chloroform	ND		0.20		ug/L			11/04/16 17:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 17:55	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 17:55	1
Benzene	ND		0.20		ug/L			11/04/16 17:55	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 17:55	1
Trichloroethene	ND		0.20		ug/L			11/04/16 17:55	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 17:55	1
Dibromomethane	ND		0.20		ug/L			11/04/16 17:55	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 17:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 17:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 17:55	1
Toluene	ND		0.40		ug/L			11/04/16 17:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 17:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 17:55	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 17:55	1
2-Hexanone	ND		2.0		ug/L			11/04/16 17:55	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 17:55	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 17:55	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 17:55	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 17:55	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 17:55	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 17:55	1
o-Xylene	ND		0.50		ug/L			11/04/16 17:55	1
Styrene	ND		0.50		ug/L			11/04/16 17:55	1
Bromoform	ND		0.50		ug/L			11/04/16 17:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 17:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 17:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 17:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 17:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 17:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 17:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: Trip Blank
Date Collected: 10/24/16 00:00
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		75 - 125		11/04/16 17:55	1
Trifluorotoluene (Surr)	103		74 - 118		11/04/16 17:55	1
Dibromofluoromethane (Surr)	103		42 - 132		11/04/16 17:55	1
4-Bromofluorobenzene (Surr)	101		81 - 120		11/04/16 17:55	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		11/04/16 17:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-231665/18
Matrix: Water
Analysis Batch: 231665

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/04/16 15:07	1
Bromomethane	ND		1.0		ug/L			11/04/16 15:07	1
Chloroethane	ND		0.50		ug/L			11/04/16 15:07	1
Trichlorofluoromethane	ND		0.50		ug/L			11/04/16 15:07	1
1,1-Dichloroethene	ND		0.10		ug/L			11/04/16 15:07	1
Methyl iodide	ND		0.50		ug/L			11/04/16 15:07	1
Carbon disulfide	ND		0.20		ug/L			11/04/16 15:07	1
Acetone	ND		2.0		ug/L			11/04/16 15:07	1
Methylene Chloride	ND		0.50		ug/L			11/04/16 15:07	1
Acrylonitrile	ND		5.0		ug/L			11/04/16 15:07	1
Vinyl acetate	ND		1.0		ug/L			11/04/16 15:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 15:07	1
1,1-Dichloroethane	ND		0.20		ug/L			11/04/16 15:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/04/16 15:07	1
2-Butanone	ND		15		ug/L			11/04/16 15:07	1
Bromochloromethane	ND		0.20		ug/L			11/04/16 15:07	1
Chloroform	ND		0.20		ug/L			11/04/16 15:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/04/16 15:07	1
Carbon tetrachloride	ND		0.20		ug/L			11/04/16 15:07	1
Benzene	ND		0.20		ug/L			11/04/16 15:07	1
1,2-Dichloroethane	ND		0.20		ug/L			11/04/16 15:07	1
Trichloroethene	ND		0.20		ug/L			11/04/16 15:07	1
1,2-Dichloropropane	ND		0.20		ug/L			11/04/16 15:07	1
Dibromomethane	ND		0.20		ug/L			11/04/16 15:07	1
Bromodichloromethane	ND		0.20		ug/L			11/04/16 15:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/04/16 15:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/04/16 15:07	1
Toluene	ND		0.40		ug/L			11/04/16 15:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/04/16 15:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/04/16 15:07	1
Tetrachloroethene	ND		0.50		ug/L			11/04/16 15:07	1
2-Hexanone	ND		2.0		ug/L			11/04/16 15:07	1
Dibromochloromethane	ND		0.20		ug/L			11/04/16 15:07	1
1,2-Dibromoethane	ND		0.10		ug/L			11/04/16 15:07	1
Chlorobenzene	ND		0.20		ug/L			11/04/16 15:07	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 15:07	1
Ethylbenzene	ND		0.20		ug/L			11/04/16 15:07	1
m,p-Xylene	ND		0.50		ug/L			11/04/16 15:07	1
o-Xylene	ND		0.50		ug/L			11/04/16 15:07	1
Styrene	ND		0.50		ug/L			11/04/16 15:07	1
Bromoform	ND		0.50		ug/L			11/04/16 15:07	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/04/16 15:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/04/16 15:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/04/16 15:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/04/16 15:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/04/16 15:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/04/16 15:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-231665/18
Matrix: Water
Analysis Batch: 231665

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		11/04/16 15:07	1
Trifluorotoluene (Surr)	102		74 - 118		11/04/16 15:07	1
Dibromofluoromethane (Surr)	100		42 - 132		11/04/16 15:07	1
4-Bromofluorobenzene (Surr)	103		81 - 120		11/04/16 15:07	1
1,2-Dichloroethane-d4 (Surr)	102		46 - 150		11/04/16 15:07	1

Lab Sample ID: LCS 580-231665/19
Matrix: Water
Analysis Batch: 231665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.28		ug/L		106	40 - 150
Bromomethane	5.00	5.44		ug/L		109	61 - 135
Chloroethane	5.00	5.49		ug/L		110	58 - 130
Trichlorofluoromethane	5.00	5.50		ug/L		110	60 - 150
1,1-Dichloroethene	5.04	5.24		ug/L		104	64 - 125
Methyl iodide	5.02	5.61		ug/L		112	47 - 145
Carbon disulfide	5.02	5.44		ug/L		108	65 - 128
Acetone	25.0	24.3		ug/L		97	20 - 138
Methylene Chloride	5.02	5.16		ug/L		103	58 - 134
Acrylonitrile	50.0	48.1		ug/L		96	55 - 134
Vinyl acetate	12.5	13.1		ug/L		105	30 - 150
trans-1,2-Dichloroethene	5.01	5.28		ug/L		105	69 - 124
1,1-Dichloroethane	5.00	5.19		ug/L		104	68 - 135
cis-1,2-Dichloroethene	5.01	5.18		ug/L		103	73 - 130
2-Butanone	25.0	23.8		ug/L		95	30 - 150
Bromochloromethane	5.01	5.22		ug/L		104	71 - 131
Chloroform	5.00	5.15		ug/L		103	71 - 130
1,1,1-Trichloroethane	5.02	5.31		ug/L		106	56 - 150
Carbon tetrachloride	5.01	5.32		ug/L		106	54 - 150
Benzene	5.02	5.24		ug/L		104	73 - 120
1,2-Dichloroethane	5.00	5.11		ug/L		102	63 - 150
Trichloroethene	5.01	5.23		ug/L		104	72 - 123
1,2-Dichloropropane	5.00	4.96		ug/L		99	72 - 120
Dibromomethane	5.02	5.04		ug/L		100	65 - 137
Bromodichloromethane	5.02	4.97		ug/L		99	62 - 150
cis-1,3-Dichloropropene	5.01	4.91		ug/L		98	54 - 150
4-Methyl-2-pentanone	25.0	23.1		ug/L		93	36 - 150
Toluene	5.00	5.28		ug/L		105	70 - 126
trans-1,3-Dichloropropene	5.00	4.73		ug/L		95	40 - 150
1,1,2-Trichloroethane	5.02	4.99		ug/L		99	62 - 137
Tetrachloroethene	5.01	5.34		ug/L		106	67 - 123
2-Hexanone	25.0	22.6		ug/L		90	25 - 150
Dibromochloromethane	5.01	5.01		ug/L		100	46 - 150
1,2-Dibromoethane	5.01	4.70		ug/L		94	56 - 146
Chlorobenzene	5.02	5.01		ug/L		100	74 - 114
1,1,1,2-Tetrachloroethane	5.02	5.27		ug/L		105	68 - 139
Ethylbenzene	5.02	5.27		ug/L		105	74 - 125

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-231665/19
Matrix: Water
Analysis Batch: 231665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	5.01	5.18		ug/L		103	73 - 130
o-Xylene	5.01	5.28		ug/L		105	80 - 139
Styrene	5.01	5.01		ug/L		100	68 - 136
Bromoform	5.02	4.62		ug/L		92	51 - 137
1,1,2,2-Tetrachloroethane	5.01	4.61		ug/L		92	60 - 134
1,2,3-Trichloropropane	5.01	4.81		ug/L		96	45 - 150
trans-1,4-Dichloro-2-butene	5.00	3.98		ug/L		80	20 - 150
1,4-Dichlorobenzene	5.01	5.05		ug/L		101	77 - 120
1,2-Dichlorobenzene	5.00	5.16		ug/L		103	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	4.67		ug/L		93	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*74 - 118*
Dibromofluoromethane (Surr)	*103*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Lab Sample ID: LCSD 580-231665/20
Matrix: Water
Analysis Batch: 231665

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
Chloromethane	5.00	5.07		ug/L		101	40 - 150	4	31
Bromomethane	5.00	5.26		ug/L		105	61 - 135	3	31
Chloroethane	5.00	5.60		ug/L		112	58 - 130	2	35
Trichlorofluoromethane	5.00	5.34		ug/L		107	60 - 150	3	31
1,1-Dichloroethene	5.04	5.39		ug/L		107	64 - 125	3	28
Methyl iodide	5.02	5.32		ug/L		106	47 - 145	5	35
Carbon disulfide	5.02	5.48		ug/L		109	65 - 128	1	32
Acetone	25.0	24.1		ug/L		96	20 - 138	1	35
Methylene Chloride	5.02	5.25		ug/L		104	58 - 134	2	29
Acrylonitrile	50.0	48.1		ug/L		96	55 - 134	0	35
Vinyl acetate	12.5	11.8		ug/L		94	30 - 150	10	35
trans-1,2-Dichloroethene	5.01	5.09		ug/L		102	69 - 124	4	27
1,1-Dichloroethane	5.00	5.16		ug/L		103	68 - 135	1	27
cis-1,2-Dichloroethene	5.01	5.18		ug/L		103	73 - 130	0	20
2-Butanone	25.0	24.0		ug/L		96	30 - 150	1	35
Bromochloromethane	5.01	5.24		ug/L		105	71 - 131	0	20
Chloroform	5.00	5.08		ug/L		101	71 - 130	2	20
1,1,1-Trichloroethane	5.02	5.30		ug/L		106	56 - 150	0	29
Carbon tetrachloride	5.01	5.29		ug/L		106	54 - 150	1	30
Benzene	5.02	5.18		ug/L		103	73 - 120	1	20
1,2-Dichloroethane	5.00	4.95		ug/L		99	63 - 150	3	29
Trichloroethene	5.01	5.28		ug/L		105	72 - 123	1	20
1,2-Dichloropropane	5.00	4.88		ug/L		97	72 - 120	2	20
Dibromomethane	5.02	5.01		ug/L		100	65 - 137	0	20
Bromodichloromethane	5.02	4.89		ug/L		97	62 - 150	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-231665/20
Matrix: Water
Analysis Batch: 231665

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
cis-1,3-Dichloropropene			5.01	4.98		ug/L		99	54 - 150	1	28
4-Methyl-2-pentanone			25.0	23.4		ug/L		94	36 - 150	1	34
Toluene			5.00	5.23		ug/L		104	70 - 126	1	20
trans-1,3-Dichloropropene			5.00	4.81		ug/L		96	40 - 150	2	30
1,1,2-Trichloroethane			5.02	4.88		ug/L		97	62 - 137	2	30
Tetrachloroethene			5.01	5.33		ug/L		106	67 - 123	0	20
2-Hexanone			25.0	22.9		ug/L		92	25 - 150	1	28
Dibromochloromethane			5.01	5.03		ug/L		100	46 - 150	0	20
1,2-Dibromoethane			5.01	4.66		ug/L		93	56 - 146	1	20
Chlorobenzene			5.02	4.99		ug/L		99	74 - 114	0	12
1,1,1,2-Tetrachloroethane			5.02	5.17		ug/L		103	68 - 139	2	20
Ethylbenzene			5.02	5.22		ug/L		104	74 - 125	1	20
m,p-Xylene			5.01	5.25		ug/L		105	73 - 130	1	20
o-Xylene			5.01	5.24		ug/L		105	80 - 139	1	20
Styrene			5.01	5.01		ug/L		100	68 - 136	0	20
Bromoform			5.02	4.89		ug/L		97	51 - 137	6	20
1,1,2,2-Tetrachloroethane			5.01	4.65		ug/L		93	60 - 134	1	25
1,2,3-Trichloropropane			5.01	4.69		ug/L		94	45 - 150	3	20
trans-1,4-Dichloro-2-butene			5.00	4.36		ug/L		87	20 - 150	9	20
1,4-Dichlorobenzene			5.01	4.99		ug/L		99	77 - 120	1	11
1,2-Dichlorobenzene			5.00	5.11		ug/L		102	73 - 120	1	14
1,2-Dibromo-3-Chloropropane			5.01	4.88		ug/L		97	34 - 150	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*102*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*

Lab Sample ID: MB 580-231765/5
Matrix: Water
Analysis Batch: 231765

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50		ug/L			11/07/16 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/07/16 11:27*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/07/16 11:27*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/07/16 11:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*11/07/16 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/07/16 11:27*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-231765/6
Matrix: Water
Analysis Batch: 231765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			5.00	5.83		ug/L		117	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*104*		*42 - 132*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Lab Sample ID: LCSD 580-231765/7
Matrix: Water
Analysis Batch: 231765

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
Trichlorofluoromethane			5.00	5.08		ug/L		102	60 - 150	14	31

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*75 - 125*
Trifluorotoluene (Surr)	*97*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-231328/19-A
Matrix: Water
Analysis Batch: 231412

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		11/02/16 09:11	11/02/16 17:34	1
Iron	ND		0.30		mg/L		11/02/16 09:11	11/02/16 17:34	1
Magnesium	ND		1.1		mg/L		11/02/16 09:11	11/02/16 17:34	1
Manganese	ND		0.020		mg/L		11/02/16 09:11	11/02/16 17:34	1
Potassium	ND		3.3		mg/L		11/02/16 09:11	11/02/16 17:34	1
Sodium	ND		2.0		mg/L		11/02/16 09:11	11/02/16 17:34	1

Lab Sample ID: LCS 580-231328/20-A
Matrix: Water
Analysis Batch: 231412

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium			20.0	20.4		mg/L		102	80 - 120		
Iron			22.0	22.1		mg/L		101	80 - 120		
Magnesium			20.0	20.5		mg/L		102	80 - 120		
Manganese			1.00	1.01		mg/L		101	80 - 120		
Potassium			20.0	20.8		mg/L		104	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-231328/20-A
Matrix: Water
Analysis Batch: 231412

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	20.0	20.8		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-231328/21-A
Matrix: Water
Analysis Batch: 231412

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.5		mg/L		102	80 - 120	0	20
Iron	22.0	22.1		mg/L		101	80 - 120	0	20
Magnesium	20.0	20.3		mg/L		102	80 - 120	1	20
Manganese	1.00	1.01		mg/L		101	80 - 120	0	20
Potassium	20.0	20.8		mg/L		104	80 - 120	0	20
Sodium	20.0	20.8		mg/L		104	80 - 120	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-231231/21-A
Matrix: Water
Analysis Batch: 231324

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 231231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Arsenic	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 21:15	1
Barium	ND		0.0012		mg/L		11/01/16 10:23	11/01/16 21:15	1
Beryllium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Cadmium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Chromium	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Cobalt	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Copper	ND		0.0020		mg/L		11/01/16 10:23	11/01/16 21:15	1
Lead	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Nickel	ND		0.0030		mg/L		11/01/16 10:23	11/01/16 21:15	1
Selenium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 21:15	1
Silver	ND		0.00040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Thallium	ND		0.0010		mg/L		11/01/16 10:23	11/01/16 21:15	1
Vanadium	ND		0.0040		mg/L		11/01/16 10:23	11/01/16 21:15	1
Zinc	ND		0.0070		mg/L		11/01/16 10:23	11/01/16 21:15	1

Lab Sample ID: LCS 580-231231/22-A
Matrix: Water
Analysis Batch: 231324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.81		mg/L		94	80 - 120
Arsenic	4.00	3.95		mg/L		99	80 - 120
Barium	4.00	3.83		mg/L		96	80 - 120
Beryllium	0.100	0.0955		mg/L		96	80 - 120
Cadmium	0.100	0.0981		mg/L		98	80 - 120
Chromium	0.400	0.400		mg/L		100	80 - 120
Cobalt	1.00	0.948		mg/L		95	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-231231/22-A
Matrix: Water
Analysis Batch: 231324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.500	0.495		mg/L		99	80 - 120
Lead	1.00	0.998		mg/L		100	80 - 120
Nickel	1.00	0.976		mg/L		98	80 - 120
Selenium	4.00	3.95		mg/L		99	80 - 120
Silver	0.600	0.595		mg/L		99	80 - 120
Thallium	4.00	3.88		mg/L		97	80 - 120
Vanadium	1.00	0.972		mg/L		97	80 - 120
Zinc	4.00	3.85		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-231231/23-A
Matrix: Water
Analysis Batch: 231324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 231231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.82		mg/L		94	80 - 120	0	20
Arsenic	4.00	3.93		mg/L		98	80 - 120	0	20
Barium	4.00	3.86		mg/L		97	80 - 120	1	20
Beryllium	0.100	0.0984		mg/L		98	80 - 120	3	20
Cadmium	0.100	0.0997		mg/L		100	80 - 120	2	20
Chromium	0.400	0.397		mg/L		99	80 - 120	1	20
Cobalt	1.00	0.930		mg/L		93	80 - 120	2	20
Copper	0.500	0.494		mg/L		99	80 - 120	0	20
Lead	1.00	0.985		mg/L		98	80 - 120	1	20
Nickel	1.00	0.976		mg/L		98	80 - 120	0	20
Selenium	4.00	3.90		mg/L		97	80 - 120	1	20
Silver	0.600	0.594		mg/L		99	80 - 120	0	20
Thallium	4.00	3.86		mg/L		96	80 - 120	0	20
Vanadium	1.00	0.975		mg/L		97	80 - 120	0	20
Zinc	4.00	3.83		mg/L		96	80 - 120	0	20

Lab Sample ID: MB 580-231328/19-A
Matrix: Water
Analysis Batch: 231415

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Arsenic	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 21:24	1
Barium	ND		0.0012		mg/L		11/02/16 09:11	11/02/16 21:24	1
Beryllium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Cadmium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Chromium	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Cobalt	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Copper	ND		0.0020		mg/L		11/02/16 09:11	11/02/16 21:24	1
Lead	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Nickel	ND		0.0030		mg/L		11/02/16 09:11	11/02/16 21:24	1
Selenium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 21:24	1
Silver	ND		0.00040		mg/L		11/02/16 09:11	11/02/16 21:24	1
Thallium	ND		0.0010		mg/L		11/02/16 09:11	11/02/16 21:24	1
Vanadium	ND		0.0040		mg/L		11/02/16 09:11	11/02/16 21:24	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-231328/19-A
Matrix: Water
Analysis Batch: 231415

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.0070		mg/L		11/02/16 09:11	11/02/16 21:24	1

Lab Sample ID: LCS 580-231328/20-A
Matrix: Water
Analysis Batch: 231415

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.03		mg/L		101	80 - 120
Arsenic	4.00	4.16		mg/L		104	80 - 120
Barium	4.00	4.05		mg/L		101	80 - 120
Beryllium	0.100	0.103		mg/L		103	80 - 120
Cadmium	0.100	0.103		mg/L		103	80 - 120
Chromium	0.400	0.414		mg/L		104	80 - 120
Cobalt	1.00	1.01		mg/L		101	80 - 120
Copper	0.500	0.534		mg/L		107	80 - 120
Lead	1.00	1.01		mg/L		101	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	4.00	4.02		mg/L		100	80 - 120
Silver	0.600	0.624		mg/L		104	80 - 120
Thallium	4.00	3.83		mg/L		96	80 - 120
Vanadium	1.00	1.02		mg/L		102	80 - 120
Zinc	4.00	4.13		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-231328/21-A
Matrix: Water
Analysis Batch: 231415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 231328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.05		mg/L		102	80 - 120	1	20
Arsenic	4.00	4.15		mg/L		104	80 - 120	0	20
Barium	4.00	4.06		mg/L		101	80 - 120	0	20
Beryllium	0.100	0.108		mg/L		108	80 - 120	5	20
Cadmium	0.100	0.102		mg/L		102	80 - 120	1	20
Chromium	0.400	0.413		mg/L		103	80 - 120	0	20
Cobalt	1.00	1.01		mg/L		101	80 - 120	0	20
Copper	0.500	0.526		mg/L		105	80 - 120	1	20
Lead	1.00	0.998		mg/L		100	80 - 120	1	20
Nickel	1.00	1.03		mg/L		103	80 - 120	1	20
Selenium	4.00	4.02		mg/L		101	80 - 120	0	20
Silver	0.600	0.619		mg/L		103	80 - 120	1	20
Thallium	4.00	3.87		mg/L		97	80 - 120	1	20
Vanadium	1.00	1.02		mg/L		102	80 - 120	0	20
Zinc	4.00	4.07		mg/L		102	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-231475/3
Matrix: Water
Analysis Batch: 231475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 08:11	1
Chloride	ND		0.90		mg/L			11/02/16 08:11	1
Sulfate	ND		1.2		mg/L			11/02/16 08:11	1

Lab Sample ID: LCS 580-231475/4
Matrix: Water
Analysis Batch: 231475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.22		mg/L		104	90 - 110
Chloride	50.0	52.6		mg/L		105	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: LCSD 580-231475/5
Matrix: Water
Analysis Batch: 231475

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
Fluoride	5.00	5.23		mg/L		105	90 - 110	0	15
Chloride	50.0	52.6		mg/L		105	90 - 110	0	15
Sulfate	50.0	51.9		mg/L		104	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-231002/1-A
Matrix: Water
Analysis Batch: 231111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/28/16 13:28	10/31/16 10:35	1

Lab Sample ID: LCS 580-231002/2-A
Matrix: Water
Analysis Batch: 231111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.11		mg/L		105	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-231186/14
Matrix: Water
Analysis Batch: 231186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:20	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 580-231186/15
Matrix: Water
Analysis Batch: 231186

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	1.00	0.988		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-231186/16
Matrix: Water
Analysis Batch: 231186

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	1.00	0.983		mg/L		98	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-230933/2
Matrix: Water
Analysis Batch: 230933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	93.3		mg/L		93	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-231001/1
Matrix: Water
Analysis Batch: 231001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			10/29/16 10:59	1

Lab Sample ID: LCS 580-231001/2
Matrix: Water
Analysis Batch: 231001

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	1000	1010		mg/L		101	80 - 120

Lab Sample ID: 580-63607-1 DU
Matrix: Water
Analysis Batch: 231001

Client Sample ID: 1016-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	600		603		mg/L		0	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-231135/3-A
Matrix: Water
Analysis Batch: 231171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231135

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Lab Sample ID: LCS 580-231135/4-A
Matrix: Water
Analysis Batch: 231171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231135

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	77.8		mg/L		104	80 - 120		

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-231152/3
Matrix: Water
Analysis Batch: 231152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			10/28/16 17:44	1

Lab Sample ID: LCS 580-231152/4
Matrix: Water
Analysis Batch: 231152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	8.95		mg/L		90	85 - 115		

Lab Sample ID: MB 580-231155/3
Matrix: Water
Analysis Batch: 231155

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			10/28/16 14:26	1

Lab Sample ID: LCS 580-231155/4
Matrix: Water
Analysis Batch: 231155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	9.09		mg/L		91	85 - 115		

Lab Sample ID: 580-63607-10 MS
Matrix: Water
Analysis Batch: 231155

Client Sample ID: 1016-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	2.6		10.0	12.4		mg/L		98	85 - 115		

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-63607-10 MSD
Matrix: Water
Analysis Batch: 231155

Client Sample ID: 1016-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.6		10.0	12.2		mg/L		97	85 - 115	1	20

Lab Sample ID: 580-63607-10 DU
Matrix: Water
Analysis Batch: 231155

Client Sample ID: 1016-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	2.6			2.37		mg/L				8	20

Client Sample ID: 1016-21

Lab Sample ID: 580-63607-1

Date Collected: 10/24/16 11:06

Matrix: Water

Date Received: 10/25/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 20:16	HDK	TAL SEA
Total/NA	Analysis	8260C	RA	1	231765	11/07/16 13:48	TL1	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 18:12	HJM	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231324	11/01/16 23:21	FCW	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231373	11/02/16 10:47	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 12:50	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		10	231186	10/31/16 16:29	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Client Sample ID: 1016-20

Lab Sample ID: 580-63607-2

Date Collected: 10/24/16 12:00

Matrix: Water

Date Received: 10/25/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 20:44	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 18:19	HJM	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231324	11/01/16 23:26	FCW	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231373	11/02/16 10:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 13:09	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:30	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-32

Date Collected: 10/24/16 12:10
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 21:12	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 18:25	HJM	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231324	11/01/16 23:30	FCW	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231373	11/02/16 10:56	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 13:27	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:31	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Client Sample ID: 1016-15

Date Collected: 10/24/16 13:27
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 21:40	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 18:32	HJM	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231324	11/01/16 23:35	FCW	TAL SEA
Total Recoverable	Prep	3005A			231231	11/01/16 10:23	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231373	11/02/16 11:01	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 13:46	RSB	TAL SEA
Total/NA	Analysis	300.0		10	231475	11/03/16 09:20	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:35	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Client Sample ID: 1016-16
Date Collected: 10/24/16 14:23
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 22:08	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 18:38	HJM	TAL SEA
Total Recoverable	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231415	11/02/16 20:34	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 14:04	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		10	231186	10/31/16 16:36	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Client Sample ID: 1016-99
Date Collected: 10/24/16 14:30
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 22:37	HDK	TAL SEA

Client Sample ID: 1016-100
Date Collected: 10/24/16 12:20
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 23:05	HDK	TAL SEA

Client Sample ID: 1016-14
Date Collected: 10/24/16 15:32
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 23:33	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 18:55	HJM	TAL SEA
Total Recoverable	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231415	11/02/16 20:39	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 14:22	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-14
Date Collected: 10/24/16 15:32
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	231186	10/31/16 16:37	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Client Sample ID: 1016-11
Date Collected: 10/24/16 16:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/05/16 00:01	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 19:02	HJM	TAL SEA
Total Recoverable	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231415	11/02/16 20:43	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 14:41	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:28	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:38	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231152	10/28/16 17:44	Z1T	TAL SEA

Client Sample ID: 1016-10
Date Collected: 10/24/16 17:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/05/16 00:29	HDK	TAL SEA
Dissolved	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231412	11/02/16 19:08	HJM	TAL SEA
Total Recoverable	Prep	3005A			231328	11/02/16 09:11	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231415	11/02/16 20:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 14:59	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231002	10/28/16 13:29	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231111	10/31/16 10:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:39	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	230933	10/27/16 17:44	L1I	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Client Sample ID: 1016-10

Date Collected: 10/24/16 17:38
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 10/24/16 00:00
Date Received: 10/25/16 16:25

Lab Sample ID: 580-63607-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231665	11/04/16 17:55	HDK	TAL SEA

Laboratory References:

SC0053 = OnSite Environmental Inc, 14648 NE 95th Street, Redmond, WA 98052

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
TestAmerica Job ID: 580-63607-1
Project/Site: Coupeville Solid Waste Facility Groundwa

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-63607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-63607-1	1016-21	Water	10/24/16 11:06	10/25/16 16:25
580-63607-2	1016-20	Water	10/24/16 12:00	10/25/16 16:25
580-63607-3	1016-32	Water	10/24/16 12:10	10/25/16 16:25
580-63607-4	1016-15	Water	10/24/16 13:27	10/25/16 16:25
580-63607-5	1016-16	Water	10/24/16 14:23	10/25/16 16:25
580-63607-6	1016-99	Water	10/24/16 14:30	10/25/16 16:25
580-63607-7	1016-100	Water	10/24/16 12:20	10/25/16 16:25
580-63607-8	1016-14	Water	10/24/16 15:32	10/25/16 16:25
580-63607-9	1016-11	Water	10/24/16 16:38	10/25/16 16:25
580-63607-10	1016-10	Water	10/24/16 17:38	10/25/16 16:25
580-63607-11	Trip Blank	Water	10/24/16 00:00	10/25/16 16:25

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 4, 2016

Cathy Gamble
Test America
5755 8th Street East
Tacoma, WA 98424

Re: Analytical Data for Project 580-63607-1
Laboratory Reference No. 1611-006

Dear Cathy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 1, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

Case Narrative

Samples were collected on October 24, 2016 and received by the laboratory on November 1, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-21 (580-63607-A-1)**					
Laboratory ID:	11-006-01					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-20 (580-63607-A-2)**					
Laboratory ID:	11-006-02					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-32 (580-63607-A-3)**					
Laboratory ID:	11-006-03					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-15 (580-63607-A-4)**					
Laboratory ID:	11-006-04					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-16 (580-63607-A-5)**					
Laboratory ID:	11-006-05					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-99 (580-63607-A-6)**					
Laboratory ID:	11-006-06					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*101*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-100 (580-63607-A-7)**					
Laboratory ID:	11-006-07					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-14 (580-63607-A-8)**					
Laboratory ID:	11-006-08					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-11 (580-63607-A-9)**					
Laboratory ID:	11-006-09					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-10 (580-63607-A-10)**					
Laboratory ID:	11-006-10					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*77-129*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank (580-63607-A-11)**					
Laboratory ID:	11-006-11					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1103W2					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-3-16	11-3-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*98*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-006
Project: 580-63607-1

VINYL CHLORIDE EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1103W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.8**	**9.79**	10.0	10.0	108	98	63-127	10	17	
Benzene	**11.1**	**10.0**	10.0	10.0	111	100	76-121	11	12	
Trichloroethene	**9.10**	**8.36**	10.0	10.0	91	84	64-114	8	15	
Toluene	**10.9**	**10.0**	10.0	10.0	109	100	82-115	9	13	
Chlorobenzene	**11.2**	**10.0**	10.0	10.0	112	100	80-115	12	14	
Surrogate:										
Dibromofluoromethane					*100*	*98*	*77-129*			
Toluene-d8					*98*	*94*	*80-127*			
4-Bromofluorobenzene					*99*	*96*	*80-125*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

11-006

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/9/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-41870.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 1 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-63607-1
Address: 14648 NE 95th Street, ,	Due Date Requested: ~~11/4/2016~~ 11/8/16 3D			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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 - Client ID (Lab ID)	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)	SUB (8260_LL (Vinyl Chloride only))/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	1016-21 (580-63607-1)	10/24/16	11:06 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
2	1016-20 (580-63607-2)	10/24/16	12:00 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
3	1016-32 (580-63607-3)	10/24/16	12:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
4	1016-15 (580-63607-4)	10/24/16	13:27 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
5	1016-16 (580-63607-5)	10/24/16	14:23 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
6	1016-99 (580-63607-6)	10/24/16	14:30 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
7	1016-100 (580-63607-7)	10/24/16	12:20 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
8	1016-14 (580-63607-8)	10/24/16	15:32 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
9	1016-11 (580-63607-9)	10/24/16	16:38 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		11/1/16 1155	TAL		11/1/16 1155	08B
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

11-006

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/9/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-41870.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 2 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-63607-1
Address: 14648 NE 95th Street, ,	Due Date Requested: ~~11/4/2016~~ 11/8/16 DA			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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 - Client ID (Lab ID)	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)	SUB (8260_LL (Vinyl Chloride only)/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
10 1016-10 (580-63607-10)	10/24/16	17:38 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
11 Trip Blank (580-63607-11)	10/24/16	Pacific		Water			X	1	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/11/16 1155	[illegible]	[signature]	11/11/16 1155	OSE
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-63607-1

Login Number: 63607
List Number: 1
Creator: Torres, Terri L

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-63627-1
Client Project/Site: Coupeville Solid Waste LF

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
11/10/2016 3:10:42 PM

Cathy Gamble, Project Management Assistant I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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Job ID: 580-63627-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-63627-1

Comments
No additional comments.

Receipt
The samples were received on 10/27/2016 1:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 5.0º C, 5.2º C, 5.5º C, 6.0º C and 6.3º C.

Samples were sent to OnSite Environmental for VInyl Chloride analysis with client permission due to instrumentation issues at TestAmerica.

GC/MS VOA
Method(s) 8260C: The method blank for preparation batch analytical batch 580-231711 contained Acetone above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 580-231711 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-231711 was outside criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-231711 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 1016-03 (580-63627-1), 1016-04 (580-63627-2), 1016-07 (580-63627-3), 1016-06 (580-63627-4), 1016-24 (580-63627-5), 1016-30 (580-63627-6), 1016-29 (580-63627-7), 1016-12 (580-63627-8), 1016-18 (580-63627-9), 1016-17 (580-63627-10), 1016-95 (580-63627-11), 1016-98 (580-63627-12), 1016-01 (580-63627-13), 1016-13 (580-63627-14), 1016-26 (580-63627-15), Trip Blank (580-63627-16) and (CCVIS 580-231711/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8151A: Dalapon recovered outside control limits for the laboratory control sample LCS and laboratory control sample duplicate LCSD associated with preparation batch 580-231385 and analytical batch 580-231859. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method 8260_LL (Vinyl Chloride only): This method was subcontracted to OnSite Environmental Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-03
Date Collected: 10/25/16 09:40
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 05:38	1
Bromomethane	ND		1.0		ug/L			11/05/16 05:38	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 05:38	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 05:38	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 05:38	1
Methyl iodide	ND		0.50		ug/L			11/05/16 05:38	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 05:38	1
Acetone	ND		2.0		ug/L			11/05/16 05:38	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 05:38	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 05:38	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 05:38	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 05:38	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 05:38	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 05:38	1
2-Butanone	ND		15		ug/L			11/05/16 05:38	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 05:38	1
Chloroform	ND		0.20		ug/L			11/05/16 05:38	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 05:38	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 05:38	1
Benzene	ND		0.20		ug/L			11/05/16 05:38	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 05:38	1
Trichloroethene	ND		0.20		ug/L			11/05/16 05:38	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 05:38	1
Dibromomethane	ND		0.20		ug/L			11/05/16 05:38	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 05:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 05:38	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 05:38	1
Toluene	ND		0.40		ug/L			11/05/16 05:38	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 05:38	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 05:38	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 05:38	1
2-Hexanone	ND		2.0		ug/L			11/05/16 05:38	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 05:38	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 05:38	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 05:38	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 05:38	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 05:38	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 05:38	1
o-Xylene	ND		0.50		ug/L			11/05/16 05:38	1
Styrene	ND		0.50		ug/L			11/05/16 05:38	1
Bromoform	ND		0.50		ug/L			11/05/16 05:38	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 05:38	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 05:38	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 05:38	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 05:38	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 05:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 05:38	1

Client Sample ID: 1016-03
Date Collected: 10/25/16 09:40
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 05:38*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/05/16 05:38*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 05:38*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 05:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/05/16 05:38*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		11/04/16 09:24	11/04/16 16:18	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:18	1
Magnesium	**55**		1.1		mg/L		11/04/16 09:24	11/04/16 16:18	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 16:18	1
Potassium	**6.3**		3.3		mg/L		11/04/16 09:24	11/04/16 16:18	1
Sodium	**32**		2.0		mg/L		11/04/16 09:24	11/04/16 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Arsenic	**0.0040**		0.0010		mg/L		11/04/16 10:35	11/07/16 23:24	1
Barium	**0.049**		0.0012		mg/L		11/04/16 10:35	11/07/16 23:24	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Chromium	**0.0055**		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/07/16 23:24	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/07/16 23:24	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:24	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:24	1
Vanadium	**0.0084**		0.0040		mg/L		11/04/16 10:35	11/07/16 23:24	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/07/16 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 09:10	1
Chloride	**48**		0.90		mg/L			11/02/16 09:10	1
Sulfate	**45**		1.2		mg/L			11/02/16 09:10	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**0.86**		0.050		mg/L			10/31/16 16:40	1
Total Organic Carbon	**1.7**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**530**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**530**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**680**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-04
Date Collected: 10/25/16 10:58
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 06:06	1
Bromomethane	ND		1.0		ug/L			11/05/16 06:06	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 06:06	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 06:06	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 06:06	1
Methyl iodide	ND		0.50		ug/L			11/05/16 06:06	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 06:06	1
Acetone	ND		2.0		ug/L			11/05/16 06:06	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 06:06	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 06:06	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 06:06	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 06:06	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 06:06	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 06:06	1
2-Butanone	ND		15		ug/L			11/05/16 06:06	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 06:06	1
Chloroform	ND		0.20		ug/L			11/05/16 06:06	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 06:06	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 06:06	1
Benzene	ND		0.20		ug/L			11/05/16 06:06	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 06:06	1
Trichloroethene	ND		0.20		ug/L			11/05/16 06:06	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 06:06	1
Dibromomethane	ND		0.20		ug/L			11/05/16 06:06	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 06:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 06:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 06:06	1
Toluene	ND		0.40		ug/L			11/05/16 06:06	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 06:06	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 06:06	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 06:06	1
2-Hexanone	ND		2.0		ug/L			11/05/16 06:06	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 06:06	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 06:06	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 06:06	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 06:06	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 06:06	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 06:06	1
o-Xylene	ND		0.50		ug/L			11/05/16 06:06	1
Styrene	ND		0.50		ug/L			11/05/16 06:06	1
Bromoform	ND		0.50		ug/L			11/05/16 06:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 06:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 06:06	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 06:06	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 06:06	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 06:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 06:06	1

Client Sample ID: 1016-04

Date Collected: 10/25/16 10:58
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 06:06*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*11/05/16 06:06*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 06:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 06:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 06:06*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**36**		1.1		mg/L		11/04/16 09:24	11/04/16 16:43	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:43	1
Magnesium	**26**		1.1		mg/L		11/04/16 09:24	11/04/16 16:43	1
Manganese	**0.062**		0.020		mg/L		11/04/16 09:24	11/04/16 16:43	1
Potassium	**10**		3.3		mg/L		11/04/16 09:24	11/04/16 16:43	1
Sodium	**38**		2.0		mg/L		11/04/16 09:24	11/04/16 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Arsenic	**0.016**		0.0010		mg/L		11/04/16 10:35	11/07/16 23:20	1
Barium	**0.034**		0.0012		mg/L		11/04/16 10:35	11/07/16 23:20	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Chromium	**0.00054**		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/07/16 23:20	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/07/16 23:20	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:20	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:20	1
Vanadium	ND		0.0040		mg/L		11/04/16 10:35	11/07/16 23:20	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/07/16 23:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 09:28	1
Chloride	**32**		0.90		mg/L			11/02/16 09:28	1
Sulfate	**11**		1.2		mg/L			11/02/16 09:28	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	ND	F1	0.050		mg/L			10/31/16 16:42	1
Total Organic Carbon	**4.2**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**320**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-07
Date Collected: 10/25/16 12:43
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 06:34	1
Bromomethane	ND		1.0		ug/L			11/05/16 06:34	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 06:34	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 06:34	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 06:34	1
Methyl iodide	ND		0.50		ug/L			11/05/16 06:34	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 06:34	1
Acetone	ND		2.0		ug/L			11/05/16 06:34	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 06:34	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 06:34	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 06:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 06:34	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 06:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 06:34	1
2-Butanone	ND		15		ug/L			11/05/16 06:34	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 06:34	1
Chloroform	ND		0.20		ug/L			11/05/16 06:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 06:34	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 06:34	1
Benzene	ND		0.20		ug/L			11/05/16 06:34	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 06:34	1
Trichloroethene	ND		0.20		ug/L			11/05/16 06:34	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 06:34	1
Dibromomethane	ND		0.20		ug/L			11/05/16 06:34	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 06:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 06:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 06:34	1
Toluene	ND		0.40		ug/L			11/05/16 06:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 06:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 06:34	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 06:34	1
2-Hexanone	ND		2.0		ug/L			11/05/16 06:34	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 06:34	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 06:34	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 06:34	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 06:34	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 06:34	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 06:34	1
o-Xylene	ND		0.50		ug/L			11/05/16 06:34	1
Styrene	ND		0.50		ug/L			11/05/16 06:34	1
Bromoform	ND		0.50		ug/L			11/05/16 06:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 06:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 06:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 06:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 06:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 06:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 06:34	1

Client Sample ID: 1016-07
Date Collected: 10/25/16 12:43
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 06:34*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/05/16 06:34*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 06:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 06:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/05/16 06:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**61**		1.1		mg/L		11/04/16 09:24	11/04/16 16:46	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:46	1
Magnesium	**35**		1.1		mg/L		11/04/16 09:24	11/04/16 16:46	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 16:46	1
Potassium	**6.1**		3.3		mg/L		11/04/16 09:24	11/04/16 16:46	1
Sodium	**27**		2.0		mg/L		11/04/16 09:24	11/04/16 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Arsenic	**0.0079**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:14	1
Barium	**0.022**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:14	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Chromium	**0.00045**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/08/16 00:14	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/08/16 00:14	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:14	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:14	1
Vanadium	ND		0.0040		mg/L		11/04/16 10:35	11/08/16 00:14	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/08/16 00:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 09:46	1
Chloride	**37**		0.90		mg/L			11/02/16 09:46	1
Sulfate	**36**		1.2		mg/L			11/02/16 09:46	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**0.052**		0.050		mg/L			10/31/16 16:45	1
Total Organic Carbon	**1.2**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**260**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**260**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**390**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client Sample ID: 1016-06
Date Collected: 10/25/16 14:35
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 07:02	1
Bromomethane	ND		1.0		ug/L			11/05/16 07:02	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 07:02	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 07:02	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 07:02	1
Methyl iodide	ND		0.50		ug/L			11/05/16 07:02	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 07:02	1
Acetone	ND		2.0		ug/L			11/05/16 07:02	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 07:02	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 07:02	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 07:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 07:02	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 07:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 07:02	1
2-Butanone	ND		15		ug/L			11/05/16 07:02	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 07:02	1
Chloroform	ND		0.20		ug/L			11/05/16 07:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 07:02	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 07:02	1
Benzene	ND		0.20		ug/L			11/05/16 07:02	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 07:02	1
Trichloroethene	ND		0.20		ug/L			11/05/16 07:02	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 07:02	1
Dibromomethane	ND		0.20		ug/L			11/05/16 07:02	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 07:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 07:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 07:02	1
Toluene	ND		0.40		ug/L			11/05/16 07:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 07:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 07:02	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 07:02	1
2-Hexanone	ND		2.0		ug/L			11/05/16 07:02	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 07:02	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 07:02	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 07:02	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 07:02	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 07:02	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 07:02	1
o-Xylene	ND		0.50		ug/L			11/05/16 07:02	1
Styrene	ND		0.50		ug/L			11/05/16 07:02	1
Bromoform	ND		0.50		ug/L			11/05/16 07:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 07:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 07:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 07:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 07:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 07:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 07:02	1

Client Sample ID: 1016-06

Date Collected: 10/25/16 14:35
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 07:02*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/05/16 07:02*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*11/05/16 07:02*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 07:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 07:02*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		1.1		mg/L		11/04/16 09:24	11/04/16 16:50	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:50	1
Magnesium	**34**		1.1		mg/L		11/04/16 09:24	11/04/16 16:50	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 16:50	1
Potassium	**5.3**		3.3		mg/L		11/04/16 09:24	11/04/16 16:50	1
Sodium	**18**		2.0		mg/L		11/04/16 09:24	11/04/16 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Arsenic	**0.0036**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:18	1
Barium	**0.030**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:18	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Chromium	**0.0042**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Copper	**0.0029**		0.0020		mg/L		11/04/16 10:35	11/08/16 00:18	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Nickel	**0.0049**		0.0030		mg/L		11/04/16 10:35	11/08/16 00:18	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:18	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:18	1
Vanadium	**0.0072**		0.0040		mg/L		11/04/16 10:35	11/08/16 00:18	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/08/16 00:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 10:05	1
Chloride	**19**		0.90		mg/L			11/02/16 10:05	1
Sulfate	**71**		1.2		mg/L			11/02/16 10:05	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**5.7**		0.50		mg/L			10/31/16 16:49	10
Total Organic Carbon	**1.3**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**500**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-24
Date Collected: 10/25/16 15:50
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 07:30	1
Bromomethane	ND		1.0		ug/L			11/05/16 07:30	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 07:30	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 07:30	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 07:30	1
Methyl iodide	ND		0.50		ug/L			11/05/16 07:30	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 07:30	1
Acetone	ND		2.0		ug/L			11/05/16 07:30	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 07:30	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 07:30	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 07:30	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 07:30	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 07:30	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 07:30	1
2-Butanone	ND		15		ug/L			11/05/16 07:30	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 07:30	1
Chloroform	ND		0.20		ug/L			11/05/16 07:30	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 07:30	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 07:30	1
Benzene	ND		0.20		ug/L			11/05/16 07:30	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 07:30	1
Trichloroethene	ND		0.20		ug/L			11/05/16 07:30	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 07:30	1
Dibromomethane	ND		0.20		ug/L			11/05/16 07:30	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 07:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 07:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 07:30	1
Toluene	ND		0.40		ug/L			11/05/16 07:30	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 07:30	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 07:30	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 07:30	1
2-Hexanone	ND		2.0		ug/L			11/05/16 07:30	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 07:30	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 07:30	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 07:30	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 07:30	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 07:30	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 07:30	1
o-Xylene	ND		0.50		ug/L			11/05/16 07:30	1
Styrene	ND		0.50		ug/L			11/05/16 07:30	1
Bromoform	ND		0.50		ug/L			11/05/16 07:30	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 07:30	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 07:30	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 07:30	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 07:30	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 07:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 07:30	1

Client Sample ID: 1016-24

Date Collected: 10/25/16 15:50
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*11/05/16 07:30*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/05/16 07:30*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*11/05/16 07:30*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 07:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*11/05/16 07:30*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**40**		1.1		mg/L		11/04/16 09:24	11/04/16 16:53	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:53	1
Magnesium	**57**		1.1		mg/L		11/04/16 09:24	11/04/16 16:53	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 16:53	1
Potassium	**10**		3.3		mg/L		11/04/16 09:24	11/04/16 16:53	1
Sodium	**29**		2.0		mg/L		11/04/16 09:24	11/04/16 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Arsenic	**0.0050**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:23	1
Barium	**0.034**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:23	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Chromium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Copper	**0.0032**		0.0020		mg/L		11/04/16 10:35	11/08/16 00:23	1
Lead	**0.0033**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/08/16 00:23	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:23	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:23	1
Vanadium	ND		0.0040		mg/L		11/04/16 10:35	11/08/16 00:23	1
Zinc	**0.65**		0.0070		mg/L		11/04/16 10:35	11/08/16 00:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 10:23	1
Chloride	**44**		0.90		mg/L			11/02/16 10:23	1
Sulfate	**23**		1.2		mg/L			11/02/16 10:23	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**0.51**		0.050		mg/L			10/31/16 16:50	1
Total Organic Carbon	**1.9**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**400**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-30
Date Collected: 10/25/16 16:37
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 07:58	1
Bromomethane	ND		1.0		ug/L			11/05/16 07:58	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 07:58	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 07:58	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 07:58	1
Methyl iodide	ND		0.50		ug/L			11/05/16 07:58	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 07:58	1
Acetone	ND		2.0		ug/L			11/05/16 07:58	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 07:58	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 07:58	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 07:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 07:58	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 07:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 07:58	1
2-Butanone	ND		15		ug/L			11/05/16 07:58	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 07:58	1
Chloroform	ND		0.20		ug/L			11/05/16 07:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 07:58	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 07:58	1
Benzene	ND		0.20		ug/L			11/05/16 07:58	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 07:58	1
Trichloroethene	ND		0.20		ug/L			11/05/16 07:58	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 07:58	1
Dibromomethane	ND		0.20		ug/L			11/05/16 07:58	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 07:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 07:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 07:58	1
Toluene	ND		0.40		ug/L			11/05/16 07:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 07:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 07:58	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 07:58	1
2-Hexanone	ND		2.0		ug/L			11/05/16 07:58	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 07:58	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 07:58	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 07:58	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 07:58	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 07:58	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 07:58	1
o-Xylene	ND		0.50		ug/L			11/05/16 07:58	1
Styrene	ND		0.50		ug/L			11/05/16 07:58	1
Bromoform	ND		0.50		ug/L			11/05/16 07:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 07:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 07:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 07:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 07:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 07:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 07:58	1

Client Sample ID: 1016-30

Date Collected: 10/25/16 16:37
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 07:58*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*11/05/16 07:58*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*11/05/16 07:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*11/05/16 07:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/05/16 07:58*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**79**		1.1		mg/L		11/04/16 09:24	11/04/16 16:57	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:57	1
Magnesium	**45**		1.1		mg/L		11/04/16 09:24	11/04/16 16:57	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 16:57	1
Potassium	**5.4**		3.3		mg/L		11/04/16 09:24	11/04/16 16:57	1
Sodium	**32**		2.0		mg/L		11/04/16 09:24	11/04/16 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Arsenic	**0.0043**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:27	1
Barium	**0.023**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:27	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Chromium	**0.0016**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Copper	**0.050**		0.0020		mg/L		11/04/16 10:35	11/08/16 00:27	1
Lead	**0.00055**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/08/16 00:27	1
Selenium	**0.0013**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:27	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:27	1
Vanadium	**0.0048**		0.0040		mg/L		11/04/16 10:35	11/08/16 00:27	1
Zinc	**0.073**		0.0070		mg/L		11/04/16 10:35	11/08/16 00:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 10:42	1
Chloride	**58**		0.90		mg/L			11/02/16 10:42	1
Sulfate	**43**		1.2		mg/L			11/02/16 10:42	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**1.4**		0.050		mg/L			10/31/16 16:51	1
Total Organic Carbon	**2.1**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**480**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-29
Date Collected: 10/25/16 17:40
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 08:26	1
Bromomethane	ND		1.0		ug/L			11/05/16 08:26	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 08:26	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 08:26	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 08:26	1
Methyl iodide	ND		0.50		ug/L			11/05/16 08:26	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 08:26	1
Acetone	ND		2.0		ug/L			11/05/16 08:26	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 08:26	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 08:26	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 08:26	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 08:26	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 08:26	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 08:26	1
2-Butanone	ND		15		ug/L			11/05/16 08:26	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 08:26	1
Chloroform	ND		0.20		ug/L			11/05/16 08:26	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 08:26	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 08:26	1
Benzene	ND		0.20		ug/L			11/05/16 08:26	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 08:26	1
Trichloroethene	ND		0.20		ug/L			11/05/16 08:26	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 08:26	1
Dibromomethane	ND		0.20		ug/L			11/05/16 08:26	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 08:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 08:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 08:26	1
Toluene	ND		0.40		ug/L			11/05/16 08:26	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 08:26	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 08:26	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 08:26	1
2-Hexanone	ND		2.0		ug/L			11/05/16 08:26	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 08:26	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 08:26	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 08:26	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 08:26	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 08:26	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 08:26	1
o-Xylene	ND		0.50		ug/L			11/05/16 08:26	1
Styrene	ND		0.50		ug/L			11/05/16 08:26	1
Bromoform	ND		0.50		ug/L			11/05/16 08:26	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 08:26	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 08:26	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 08:26	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 08:26	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 08:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 08:26	1

Client Sample ID: 1016-29
Date Collected: 10/25/16 17:40
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 08:26*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/05/16 08:26*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 08:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 08:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/05/16 08:26*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**86**		1.1		mg/L		11/04/16 09:24	11/04/16 17:00	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 17:00	1
Magnesium	**48**		1.1		mg/L		11/04/16 09:24	11/04/16 17:00	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 17:00	1
Potassium	**4.1**		3.3		mg/L		11/04/16 09:24	11/04/16 17:00	1
Sodium	**37**		2.0		mg/L		11/04/16 09:24	11/04/16 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Arsenic	**0.0028**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:32	1
Barium	**0.027**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:32	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Chromium	**0.0022**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/08/16 00:32	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/08/16 00:32	1
Selenium	**0.0014**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:32	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:32	1
Vanadium	**0.0055**		0.0040		mg/L		11/04/16 10:35	11/08/16 00:32	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/08/16 00:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 11:00	1
Chloride	**49**		0.90		mg/L			11/02/16 11:00	1
Sulfate	**58**		1.2		mg/L			11/02/16 11:00	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**3.9**		0.25		mg/L			10/31/16 16:52	5
Total Organic Carbon	**2.2**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**540**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client Sample ID: 1016-12
Date Collected: 10/26/16 09:40
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 08:55	1
Bromomethane	ND		1.0		ug/L			11/05/16 08:55	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 08:55	1
Trichlorofluoromethane	**4.3**		0.50		ug/L			11/05/16 08:55	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 08:55	1
Methyl iodide	ND		0.50		ug/L			11/05/16 08:55	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 08:55	1
Acetone	ND		2.0		ug/L			11/05/16 08:55	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 08:55	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 08:55	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 08:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 08:55	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 08:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 08:55	1
2-Butanone	ND		15		ug/L			11/05/16 08:55	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 08:55	1
Chloroform	**0.21**		0.20		ug/L			11/05/16 08:55	1
1,1,1-Trichloroethane	**0.46**		0.20		ug/L			11/05/16 08:55	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 08:55	1
Benzene	ND		0.20		ug/L			11/05/16 08:55	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 08:55	1
Trichloroethene	ND		0.20		ug/L			11/05/16 08:55	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 08:55	1
Dibromomethane	ND		0.20		ug/L			11/05/16 08:55	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 08:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 08:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 08:55	1
Toluene	ND		0.40		ug/L			11/05/16 08:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 08:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 08:55	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 08:55	1
2-Hexanone	ND		2.0		ug/L			11/05/16 08:55	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 08:55	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 08:55	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 08:55	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 08:55	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 08:55	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 08:55	1
o-Xylene	ND		0.50		ug/L			11/05/16 08:55	1
Styrene	ND		0.50		ug/L			11/05/16 08:55	1
Bromoform	ND		0.50		ug/L			11/05/16 08:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 08:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 08:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 08:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 08:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 08:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 08:55	1

Client Sample ID: 1016-12

Date Collected: 10/26/16 09:40
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 08:55*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/05/16 08:55*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 08:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 08:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 08:55*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		11/04/16 09:24	11/04/16 17:03	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 17:03	1
Magnesium	**81**		1.1		mg/L		11/04/16 09:24	11/04/16 17:03	1
Manganese	**0.056**		0.020		mg/L		11/04/16 09:24	11/04/16 17:03	1
Potassium	**6.9**		3.3		mg/L		11/04/16 09:24	11/04/16 17:03	1
Sodium	**30**		2.0		mg/L		11/04/16 09:24	11/04/16 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Arsenic	**0.0033**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:36	1
Barium	**0.037**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:36	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Chromium	**0.00088**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/08/16 00:36	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Nickel	**0.0062**		0.0030		mg/L		11/04/16 10:35	11/08/16 00:36	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:36	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:36	1
Vanadium	**0.0062**		0.0040		mg/L		11/04/16 10:35	11/08/16 00:36	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/08/16 00:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.46**		0.20		mg/L			11/02/16 11:18	1
Chloride	**58**		0.90		mg/L			11/02/16 11:18	1
Sulfate	**97**		12		mg/L			11/03/16 08:44	10
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**43**		2.5		mg/L			10/31/16 16:53	50
Total Organic Carbon	**2.4**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**420**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**420**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**850**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-18
Date Collected: 10/26/16 11:10
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 09:23	1
Bromomethane	ND		1.0		ug/L			11/05/16 09:23	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 09:23	1
Trichlorofluoromethane	**2.4**		0.50		ug/L			11/05/16 09:23	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 09:23	1
Methyl iodide	ND		0.50		ug/L			11/05/16 09:23	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 09:23	1
Acetone	ND		2.0		ug/L			11/05/16 09:23	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 09:23	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 09:23	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 09:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 09:23	1
1,1-Dichloroethane	**0.78**		0.20		ug/L			11/05/16 09:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 09:23	1
2-Butanone	ND		15		ug/L			11/05/16 09:23	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 09:23	1
Chloroform	ND		0.20		ug/L			11/05/16 09:23	1
1,1,1-Trichloroethane	**0.68**		0.20		ug/L			11/05/16 09:23	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 09:23	1
Benzene	ND		0.20		ug/L			11/05/16 09:23	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 09:23	1
Trichloroethene	ND		0.20		ug/L			11/05/16 09:23	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 09:23	1
Dibromomethane	ND		0.20		ug/L			11/05/16 09:23	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 09:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 09:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 09:23	1
Toluene	ND		0.40		ug/L			11/05/16 09:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 09:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 09:23	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 09:23	1
2-Hexanone	ND		2.0		ug/L			11/05/16 09:23	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 09:23	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 09:23	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 09:23	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 09:23	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 09:23	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 09:23	1
o-Xylene	ND		0.50		ug/L			11/05/16 09:23	1
Styrene	ND		0.50		ug/L			11/05/16 09:23	1
Bromoform	ND		0.50		ug/L			11/05/16 09:23	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 09:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 09:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 09:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 09:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 09:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 09:23	1

Client Sample ID: 1016-18
Date Collected: 10/26/16 11:10
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 09:23*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*11/05/16 09:23*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*11/05/16 09:23*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 09:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 09:23*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		11/04/16 09:24	11/04/16 17:06	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 17:06	1
Magnesium	**94**		1.1		mg/L		11/04/16 09:24	11/04/16 17:06	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 17:06	1
Potassium	**9.5**		3.3		mg/L		11/04/16 09:24	11/04/16 17:06	1
Sodium	**32**		2.0		mg/L		11/04/16 09:24	11/04/16 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Arsenic	**0.0028**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:41	1
Barium	**0.056**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:41	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Chromium	**0.00067**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/08/16 00:41	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Nickel	**0.0050**		0.0030		mg/L		11/04/16 10:35	11/08/16 00:41	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:41	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:41	1
Vanadium	**0.0065**		0.0040		mg/L		11/04/16 10:35	11/08/16 00:41	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/08/16 00:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.87**		0.20		mg/L			11/02/16 11:37	1
Chloride	**31**		0.90		mg/L			11/02/16 11:37	1
Sulfate	**110**		12		mg/L			11/03/16 09:02	10
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**6.2**		1.0		mg/L			10/31/16 16:54	20
Total Organic Carbon	**2.7**		1.0		mg/L			10/28/16 14:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**730**		5.0		mg/L			10/28/16 17:50	1
Bicarbonate Alkalinity as CaCO3	**730**		5.0		mg/L			10/28/16 17:50	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/16 17:50	1
Total Dissolved Solids	**960**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-17
Date Collected: 10/26/16 12:50
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 09:51	1
Bromomethane	ND		1.0		ug/L			11/05/16 09:51	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 09:51	1
Trichlorofluoromethane	**0.57**		0.50		ug/L			11/05/16 09:51	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 09:51	1
Methyl iodide	ND		0.50		ug/L			11/05/16 09:51	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 09:51	1
Acetone	ND		2.0		ug/L			11/05/16 09:51	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 09:51	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 09:51	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 09:51	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 09:51	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 09:51	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 09:51	1
2-Butanone	ND		15		ug/L			11/05/16 09:51	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 09:51	1
Chloroform	ND		0.20		ug/L			11/05/16 09:51	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 09:51	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 09:51	1
Benzene	ND		0.20		ug/L			11/05/16 09:51	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 09:51	1
Trichloroethene	ND		0.20		ug/L			11/05/16 09:51	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 09:51	1
Dibromomethane	ND		0.20		ug/L			11/05/16 09:51	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 09:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 09:51	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 09:51	1
Toluene	ND		0.40		ug/L			11/05/16 09:51	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 09:51	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 09:51	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 09:51	1
2-Hexanone	ND		2.0		ug/L			11/05/16 09:51	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 09:51	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 09:51	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 09:51	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 09:51	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 09:51	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 09:51	1
o-Xylene	ND		0.50		ug/L			11/05/16 09:51	1
Styrene	ND		0.50		ug/L			11/05/16 09:51	1
Bromoform	ND		0.50		ug/L			11/05/16 09:51	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 09:51	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 09:51	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 09:51	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 09:51	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 09:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 09:51	1

Client Sample ID: 1016-17

Date Collected: 10/26/16 12:50
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*75 - 125*		*11/05/16 09:51*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*11/05/16 09:51*	*1*
Dibromofluoromethane (Surr)	*105*		*42 - 132*		*11/05/16 09:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 09:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*11/05/16 09:51*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		11/04/16 09:24	11/04/16 17:10	1
Iron	**1.3**		0.30		mg/L		11/04/16 09:24	11/04/16 17:10	1
Magnesium	**73**		1.1		mg/L		11/04/16 09:24	11/04/16 17:10	1
Manganese	**0.020**		0.020		mg/L		11/04/16 09:24	11/04/16 17:10	1
Potassium	**8.3**		3.3		mg/L		11/04/16 09:24	11/04/16 17:10	1
Sodium	**41**		2.0		mg/L		11/04/16 09:24	11/04/16 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Arsenic	**0.0042**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:45	1
Barium	**0.029**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:45	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Chromium	**0.00047**		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/08/16 00:45	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Nickel	**0.0044**		0.0030		mg/L		11/04/16 10:35	11/08/16 00:45	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:45	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:45	1
Vanadium	**0.0051**		0.0040		mg/L		11/04/16 10:35	11/08/16 00:45	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/08/16 00:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 11:55	1
Chloride	**72**		0.90		mg/L			11/02/16 11:55	1
Sulfate	**72**		1.2		mg/L			11/02/16 11:55	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**2.9**		0.25		mg/L			10/31/16 16:56	5
Total Organic Carbon	**2.2**		1.0		mg/L			11/03/16 10:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**510**		5.0		mg/L			10/31/16 11:52	1
Bicarbonate Alkalinity as CaCO3	**510**		5.0		mg/L			10/31/16 11:52	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Total Dissolved Solids	**690**		10		mg/L			10/29/16 10:59	1
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Client Sample ID: 1016-95
Date Collected: 10/26/16 14:10
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 10:20	1
Bromomethane	ND		1.0		ug/L			11/05/16 10:20	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 10:20	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 10:20	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 10:20	1
Methyl iodide	ND		0.50		ug/L			11/05/16 10:20	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 10:20	1
Acetone	ND		2.0		ug/L			11/05/16 10:20	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 10:20	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 10:20	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 10:20	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 10:20	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 10:20	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 10:20	1
2-Butanone	ND		15		ug/L			11/05/16 10:20	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 10:20	1
Chloroform	ND		0.20		ug/L			11/05/16 10:20	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 10:20	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 10:20	1
Benzene	ND		0.20		ug/L			11/05/16 10:20	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 10:20	1
Trichloroethene	ND		0.20		ug/L			11/05/16 10:20	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 10:20	1
Dibromomethane	ND		0.20		ug/L			11/05/16 10:20	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 10:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 10:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 10:20	1
Toluene	ND		0.40		ug/L			11/05/16 10:20	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 10:20	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 10:20	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 10:20	1
2-Hexanone	ND		2.0		ug/L			11/05/16 10:20	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 10:20	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 10:20	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 10:20	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 10:20	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 10:20	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 10:20	1
o-Xylene	ND		0.50		ug/L			11/05/16 10:20	1
Styrene	ND		0.50		ug/L			11/05/16 10:20	1
Bromoform	ND		0.50		ug/L			11/05/16 10:20	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 10:20	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 10:20	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 10:20	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 10:20	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 10:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 10:20	1

Client Sample Results

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-95
Date Collected: 10/26/16 14:10
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		11/05/16 10:20	1
Trifluorotoluene (Surr)	100		74 - 118		11/05/16 10:20	1
Dibromofluoromethane (Surr)	99		42 - 132		11/05/16 10:20	1
4-Bromofluorobenzene (Surr)	100		81 - 120		11/05/16 10:20	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		11/05/16 10:20	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-98
Date Collected: 10/26/16 15:15
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 10:48	1
Bromomethane	ND		1.0		ug/L			11/05/16 10:48	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 10:48	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 10:48	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 10:48	1
Methyl iodide	ND		0.50		ug/L			11/05/16 10:48	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 10:48	1
Acetone	ND		2.0		ug/L			11/05/16 10:48	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 10:48	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 10:48	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 10:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 10:48	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 10:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 10:48	1
2-Butanone	ND		15		ug/L			11/05/16 10:48	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 10:48	1
Chloroform	ND		0.20		ug/L			11/05/16 10:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 10:48	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 10:48	1
Benzene	ND		0.20		ug/L			11/05/16 10:48	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 10:48	1
Trichloroethene	ND		0.20		ug/L			11/05/16 10:48	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 10:48	1
Dibromomethane	ND		0.20		ug/L			11/05/16 10:48	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 10:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 10:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 10:48	1
Toluene	ND		0.40		ug/L			11/05/16 10:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 10:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 10:48	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 10:48	1
2-Hexanone	ND		2.0		ug/L			11/05/16 10:48	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 10:48	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 10:48	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 10:48	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 10:48	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 10:48	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 10:48	1
o-Xylene	ND		0.50		ug/L			11/05/16 10:48	1
Styrene	ND		0.50		ug/L			11/05/16 10:48	1
Bromoform	ND		0.50		ug/L			11/05/16 10:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 10:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 10:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 10:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 10:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 10:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 10:48	1

Client Sample Results

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-98
Date Collected: 10/26/16 15:15
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		11/05/16 10:48	1
Trifluorotoluene (Surr)	100		74 - 118		11/05/16 10:48	1
Dibromofluoromethane (Surr)	99		42 - 132		11/05/16 10:48	1
4-Bromofluorobenzene (Surr)	101		81 - 120		11/05/16 10:48	1
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		11/05/16 10:48	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-01
Date Collected: 10/26/16 15:45
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 11:16	1
Bromomethane	ND		1.0		ug/L			11/05/16 11:16	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 11:16	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 11:16	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 11:16	1
Methyl iodide	ND		0.50		ug/L			11/05/16 11:16	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 11:16	1
Acetone	ND		2.0		ug/L			11/05/16 11:16	1
Methylene Chloride	**0.70**		0.50		ug/L			11/05/16 11:16	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 11:16	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 11:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 11:16	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 11:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 11:16	1
2-Butanone	ND		15		ug/L			11/05/16 11:16	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 11:16	1
Chloroform	ND		0.20		ug/L			11/05/16 11:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 11:16	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 11:16	1
Benzene	ND		0.20		ug/L			11/05/16 11:16	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 11:16	1
Trichloroethene	ND		0.20		ug/L			11/05/16 11:16	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 11:16	1
Dibromomethane	ND		0.20		ug/L			11/05/16 11:16	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 11:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 11:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 11:16	1
Toluene	ND		0.40		ug/L			11/05/16 11:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 11:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 11:16	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 11:16	1
2-Hexanone	ND		2.0		ug/L			11/05/16 11:16	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 11:16	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 11:16	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 11:16	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 11:16	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 11:16	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 11:16	1
o-Xylene	ND		0.50		ug/L			11/05/16 11:16	1
Styrene	ND		0.50		ug/L			11/05/16 11:16	1
Bromoform	ND		0.50		ug/L			11/05/16 11:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 11:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 11:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 11:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 11:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 11:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 11:16	1

Client Sample ID: 1016-01

Date Collected: 10/26/16 15:45
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 11:16*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/05/16 11:16*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 11:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 11:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/05/16 11:16*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**56**		1.1		mg/L		11/04/16 09:24	11/04/16 17:19	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 17:19	1
Magnesium	**38**		1.1		mg/L		11/04/16 09:24	11/04/16 17:19	1
Manganese	**0.14**		0.020		mg/L		11/04/16 09:24	11/04/16 17:19	1
Potassium	**6.1**		3.3		mg/L		11/04/16 09:24	11/04/16 17:19	1
Sodium	**25**		2.0		mg/L		11/04/16 09:24	11/04/16 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Arsenic	**0.0071**		0.0010		mg/L		11/04/16 10:35	11/08/16 00:50	1
Barium	**0.025**		0.0012		mg/L		11/04/16 10:35	11/08/16 00:50	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Chromium	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/08/16 00:50	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/08/16 00:50	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:50	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/08/16 00:50	1
Vanadium	ND		0.0040		mg/L		11/04/16 10:35	11/08/16 00:50	1
Zinc	**0.021**		0.0070		mg/L		11/04/16 10:35	11/08/16 00:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/07/16 14:12	1
Chloride	**21**		0.90		mg/L			11/07/16 14:12	1
Sulfate	**20**		1.2		mg/L			11/07/16 14:12	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:57	1
Total Organic Carbon	**1.1**		1.0		mg/L			11/03/16 10:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			10/31/16 11:52	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			10/31/16 11:52	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Total Dissolved Solids	**380**		10		mg/L			11/01/16 14:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/01/16 09:39	11/01/16 09:39	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-13
Date Collected: 10/26/16 16:30
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 11:44	1
Bromomethane	ND		1.0		ug/L			11/05/16 11:44	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 11:44	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 11:44	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 11:44	1
Methyl iodide	ND		0.50		ug/L			11/05/16 11:44	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 11:44	1
Acetone	ND		2.0		ug/L			11/05/16 11:44	1
Methylene Chloride	**0.52**		0.50		ug/L			11/05/16 11:44	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 11:44	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 11:44	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 11:44	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 11:44	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 11:44	1
2-Butanone	ND		15		ug/L			11/05/16 11:44	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 11:44	1
Chloroform	ND		0.20		ug/L			11/05/16 11:44	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 11:44	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 11:44	1
Benzene	ND		0.20		ug/L			11/05/16 11:44	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 11:44	1
Trichloroethene	ND		0.20		ug/L			11/05/16 11:44	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 11:44	1
Dibromomethane	ND		0.20		ug/L			11/05/16 11:44	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 11:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 11:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 11:44	1
Toluene	ND		0.40		ug/L			11/05/16 11:44	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 11:44	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 11:44	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 11:44	1
2-Hexanone	ND		2.0		ug/L			11/05/16 11:44	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 11:44	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 11:44	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 11:44	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 11:44	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 11:44	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 11:44	1
o-Xylene	ND		0.50		ug/L			11/05/16 11:44	1
Styrene	ND		0.50		ug/L			11/05/16 11:44	1
Bromoform	ND		0.50		ug/L			11/05/16 11:44	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 11:44	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 11:44	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 11:44	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 11:44	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 11:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 11:44	1

Client Sample ID: 1016-13
Date Collected: 10/26/16 16:30
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-14
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 11:44*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/05/16 11:44*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 11:44*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 11:44*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**73**		1.1		mg/L		11/04/16 09:24	11/04/16 17:22	1
Iron	**0.33**		0.30		mg/L		11/04/16 09:24	11/04/16 17:22	1
Magnesium	**45**		1.1		mg/L		11/04/16 09:24	11/04/16 17:22	1
Manganese	**0.10**		0.020		mg/L		11/04/16 09:24	11/04/16 17:22	1
Potassium	**5.9**		3.3		mg/L		11/04/16 09:24	11/04/16 17:22	1
Sodium	**31**		2.0		mg/L		11/04/16 09:24	11/04/16 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Arsenic	**0.0062**		0.0010		mg/L		11/04/16 10:35	11/07/16 22:21	1
Barium	**0.032**		0.0012		mg/L		11/04/16 10:35	11/07/16 22:21	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Chromium	**0.00043**		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/07/16 22:21	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/07/16 22:21	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 22:21	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 22:21	1
Vanadium	ND		0.0040		mg/L		11/04/16 10:35	11/07/16 22:21	1
Zinc	**0.076**		0.0070		mg/L		11/04/16 10:35	11/07/16 22:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/07/16 14:28	1
Chloride	**54**		0.90		mg/L			11/07/16 14:28	1
Sulfate	**41**		1.2		mg/L			11/07/16 14:28	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	ND	F1	0.050		mg/L			10/31/16 17:04	1
Total Organic Carbon	**2.0**		1.0		mg/L			11/04/16 13:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			10/31/16 11:52	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			10/31/16 11:52	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Total Dissolved Solids	**470**		10		mg/L			11/01/16 14:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/01/16 09:39	11/01/16 09:39	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-26
Date Collected: 10/26/16 17:37
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 12:12	1
Bromomethane	ND		1.0		ug/L			11/05/16 12:12	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 12:12	1
Trichlorofluoromethane	**2.0**		0.50		ug/L			11/05/16 12:12	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 12:12	1
Methyl iodide	ND		0.50		ug/L			11/05/16 12:12	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 12:12	1
Acetone	ND		2.0		ug/L			11/05/16 12:12	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 12:12	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 12:12	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 12:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 12:12	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 12:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 12:12	1
2-Butanone	ND		15		ug/L			11/05/16 12:12	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 12:12	1
Chloroform	ND		0.20		ug/L			11/05/16 12:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 12:12	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 12:12	1
Benzene	ND		0.20		ug/L			11/05/16 12:12	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 12:12	1
Trichloroethene	ND		0.20		ug/L			11/05/16 12:12	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 12:12	1
Dibromomethane	ND		0.20		ug/L			11/05/16 12:12	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 12:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 12:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 12:12	1
Toluene	ND		0.40		ug/L			11/05/16 12:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 12:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 12:12	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 12:12	1
2-Hexanone	ND		2.0		ug/L			11/05/16 12:12	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 12:12	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 12:12	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 12:12	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 12:12	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 12:12	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 12:12	1
o-Xylene	ND		0.50		ug/L			11/05/16 12:12	1
Styrene	ND		0.50		ug/L			11/05/16 12:12	1
Bromoform	ND		0.50		ug/L			11/05/16 12:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 12:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 12:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 12:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 12:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 12:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 12:12	1

Client Sample ID: 1016-26
Date Collected: 10/26/16 17:37
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*75 - 125*		*11/05/16 12:12*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/05/16 12:12*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*11/05/16 12:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 12:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/05/16 12:12*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
2,4-D	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
2,4-DB	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
4-Nitrophenol	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
Dalapon	ND	*	0.38		ug/L		11/02/16 15:20	11/08/16 14:09	1
Dicamba	**1.8**		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
Dichlorprop	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
Dinoseb	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
MCPA	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
Mecoprop	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
Pentachlorophenol	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1
Silvex (2,4,5-TP)	ND		0.24		ug/L		11/02/16 15:20	11/08/16 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*70*		*51 - 150*	*11/02/16 15:20*	*11/08/16 14:09*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		11/04/16 09:24	11/04/16 17:26	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 17:26	1
Magnesium	**47**		1.1		mg/L		11/04/16 09:24	11/04/16 17:26	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 17:26	1
Potassium	**6.0**		3.3		mg/L		11/04/16 09:24	11/04/16 17:26	1
Sodium	**28**		2.0		mg/L		11/04/16 09:24	11/04/16 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Arsenic	**0.0026**		0.0010		mg/L		11/04/16 10:35	11/07/16 22:26	1
Barium	**0.034**		0.0012		mg/L		11/04/16 10:35	11/07/16 22:26	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Chromium	**0.013**		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/07/16 22:26	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/07/16 22:26	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 22:26	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 22:26	1
Vanadium	**0.0059**		0.0040		mg/L		11/04/16 10:35	11/07/16 22:26	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/07/16 22:26	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-26
Date Collected: 10/26/16 17:37
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-15
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/07/16 14:43	1
Chloride	**93**		0.90		mg/L			11/07/16 14:43	1
Sulfate	**39**		1.2		mg/L			11/07/16 14:43	1
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1
Nitrate Nitrite as N	**12**		2.0		mg/L			10/31/16 17:08	40
Total Organic Carbon	**1.6**		1.0		mg/L			11/04/16 13:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			10/31/16 11:52	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			10/31/16 11:52	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/31/16 11:52	1
Total Dissolved Solids	**650**		10		mg/L			11/01/16 14:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/01/16 09:39	11/01/16 09:39	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: Trip Blank
Date Collected: 10/26/16 00:01
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 05:09	1
Bromomethane	ND		1.0		ug/L			11/05/16 05:09	1
Chloroethane	ND	*	0.50		ug/L			11/05/16 05:09	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 05:09	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 05:09	1
Methyl iodide	ND		0.50		ug/L			11/05/16 05:09	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 05:09	1
Acetone	ND		2.0		ug/L			11/05/16 05:09	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 05:09	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 05:09	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 05:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 05:09	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 05:09	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 05:09	1
2-Butanone	ND		15		ug/L			11/05/16 05:09	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 05:09	1
Chloroform	ND		0.20		ug/L			11/05/16 05:09	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 05:09	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 05:09	1
Benzene	ND		0.20		ug/L			11/05/16 05:09	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 05:09	1
Trichloroethene	ND		0.20		ug/L			11/05/16 05:09	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 05:09	1
Dibromomethane	ND		0.20		ug/L			11/05/16 05:09	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 05:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 05:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 05:09	1
Toluene	ND		0.40		ug/L			11/05/16 05:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 05:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 05:09	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 05:09	1
2-Hexanone	ND		2.0		ug/L			11/05/16 05:09	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 05:09	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 05:09	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 05:09	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 05:09	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 05:09	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 05:09	1
o-Xylene	ND		0.50		ug/L			11/05/16 05:09	1
Styrene	ND		0.50		ug/L			11/05/16 05:09	1
Bromoform	ND		0.50		ug/L			11/05/16 05:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 05:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 05:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 05:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 05:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 05:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 05:09	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: Trip Blank
Date Collected: 10/26/16 00:01
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-16
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		75 - 125		11/05/16 05:09	1
Trifluorotoluene (Surr)	106		74 - 118		11/05/16 05:09	1
Dibromofluoromethane (Surr)	105		42 - 132		11/05/16 05:09	1
4-Bromofluorobenzene (Surr)	100		81 - 120		11/05/16 05:09	1
1,2-Dichloroethane-d4 (Surr)	102		46 - 150		11/05/16 05:09	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-231711/5
Matrix: Water
Analysis Batch: 231711

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 02:49	1
Bromomethane	ND		1.0		ug/L			11/05/16 02:49	1
Chloroethane	ND		0.50		ug/L			11/05/16 02:49	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 02:49	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 02:49	1
Methyl iodide	ND		0.50		ug/L			11/05/16 02:49	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 02:49	1
Acetone	2.35		2.0		ug/L			11/05/16 02:49	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 02:49	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 02:49	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 02:49	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 02:49	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 02:49	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 02:49	1
2-Butanone	ND		15		ug/L			11/05/16 02:49	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 02:49	1
Chloroform	ND		0.20		ug/L			11/05/16 02:49	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 02:49	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 02:49	1
Benzene	ND		0.20		ug/L			11/05/16 02:49	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 02:49	1
Trichloroethene	ND		0.20		ug/L			11/05/16 02:49	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 02:49	1
Dibromomethane	ND		0.20		ug/L			11/05/16 02:49	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 02:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 02:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 02:49	1
Toluene	ND		0.40		ug/L			11/05/16 02:49	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 02:49	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 02:49	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 02:49	1
2-Hexanone	ND		2.0		ug/L			11/05/16 02:49	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 02:49	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 02:49	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 02:49	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 02:49	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 02:49	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 02:49	1
o-Xylene	ND		0.50		ug/L			11/05/16 02:49	1
Styrene	ND		0.50		ug/L			11/05/16 02:49	1
Bromoform	ND		0.50		ug/L			11/05/16 02:49	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 02:49	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 02:49	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 02:49	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 02:49	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 02:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 02:49	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-231711/5
Matrix: Water
Analysis Batch: 231711

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		75 - 125		11/05/16 02:49	1
Trifluorotoluene (Surr)	104		74 - 118		11/05/16 02:49	1
Dibromofluoromethane (Surr)	100		42 - 132		11/05/16 02:49	1
4-Bromofluorobenzene (Surr)	100		81 - 120		11/05/16 02:49	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		11/05/16 02:49	1

Lab Sample ID: LCS 580-231711/6
Matrix: Water
Analysis Batch: 231711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.00		ug/L		100	40 - 150
Bromomethane	5.00	4.54		ug/L		91	61 - 135
Chloroethane	5.00	6.90	*	ug/L		138	58 - 130
Trichlorofluoromethane	5.00	4.64		ug/L		93	60 - 150
1,1-Dichloroethene	5.04	5.17		ug/L		103	64 - 125
Methyl iodide	5.02	5.22		ug/L		104	47 - 145
Carbon disulfide	5.02	5.13		ug/L		102	65 - 128
Acetone	25.0	27.8		ug/L		111	20 - 138
Methylene Chloride	5.02	5.86		ug/L		117	58 - 134
Acrylonitrile	50.0	55.5		ug/L		111	55 - 134
Vinyl acetate	12.5	12.9		ug/L		104	30 - 150
trans-1,2-Dichloroethene	5.01	5.12		ug/L		102	69 - 124
1,1-Dichloroethane	5.00	5.23		ug/L		105	68 - 135
cis-1,2-Dichloroethene	5.01	5.28		ug/L		105	73 - 130
2-Butanone	25.0	26.6		ug/L		106	30 - 150
Bromochloromethane	5.01	5.57		ug/L		111	71 - 131
Chloroform	5.00	5.22		ug/L		104	71 - 130
1,1,1-Trichloroethane	5.02	5.22		ug/L		104	56 - 150
Carbon tetrachloride	5.01	5.17		ug/L		103	54 - 150
Benzene	5.02	5.40		ug/L		108	73 - 120
1,2-Dichloroethane	5.00	5.44		ug/L		109	63 - 150
Trichloroethene	5.01	5.30		ug/L		106	72 - 123
1,2-Dichloropropane	5.00	5.40		ug/L		108	72 - 120
Dibromomethane	5.02	5.39		ug/L		107	65 - 137
Bromodichloromethane	5.02	5.39		ug/L		108	62 - 150
cis-1,3-Dichloropropene	5.01	5.09		ug/L		101	54 - 150
4-Methyl-2-pentanone	25.0	29.4		ug/L		118	36 - 150
Toluene	5.00	5.38		ug/L		108	70 - 126
trans-1,3-Dichloropropene	5.00	5.32		ug/L		106	40 - 150
1,1,2-Trichloroethane	5.02	5.63		ug/L		112	62 - 137
Tetrachloroethene	5.01	5.15		ug/L		103	67 - 123
2-Hexanone	25.0	30.0		ug/L		120	25 - 150
Dibromochloromethane	5.01	5.47		ug/L		109	46 - 150
1,2-Dibromoethane	5.01	5.32		ug/L		106	56 - 146
Chlorobenzene	5.02	5.21		ug/L		104	74 - 114
1,1,1,2-Tetrachloroethane	5.02	5.54		ug/L		110	68 - 139
Ethylbenzene	5.02	5.38		ug/L		107	74 - 125

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-231711/6
Matrix: Water
Analysis Batch: 231711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	5.01	5.33		ug/L		106	73 - 130
o-Xylene	5.01	5.42		ug/L		108	80 - 139
Styrene	5.01	5.43		ug/L		108	68 - 136
Bromoform	5.02	5.65		ug/L		113	51 - 137
1,1,2,2-Tetrachloroethane	5.01	5.73		ug/L		115	60 - 134
1,2,3-Trichloropropane	5.01	5.81		ug/L		116	45 - 150
trans-1,4-Dichloro-2-butene	5.00	5.55		ug/L		111	20 - 150
1,4-Dichlorobenzene	5.01	5.53		ug/L		110	77 - 120
1,2-Dichlorobenzene	5.00	5.69		ug/L		114	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	6.10		ug/L		122	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Lab Sample ID: LCSD 580-231711/7
Matrix: Water
Analysis Batch: 231711

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
Chloromethane	5.00	5.02		ug/L		100	40 - 150	0	31
Bromomethane	5.00	5.09		ug/L		102	61 - 135	11	31
Chloroethane	5.00	6.21		ug/L		124	58 - 130	11	35
Trichlorofluoromethane	5.00	4.83		ug/L		97	60 - 150	4	31
1,1-Dichloroethene	5.04	5.09		ug/L		101	64 - 125	2	28
Methyl iodide	5.02	5.07		ug/L		101	47 - 145	3	35
Carbon disulfide	5.02	4.90		ug/L		97	65 - 128	5	32
Acetone	25.0	25.9		ug/L		104	20 - 138	7	35
Methylene Chloride	5.02	5.54		ug/L		110	58 - 134	5	29
Acrylonitrile	50.0	53.3		ug/L		107	55 - 134	4	35
Vinyl acetate	12.5	9.62		ug/L		77	30 - 150	29	35
trans-1,2-Dichloroethene	5.01	4.89		ug/L		98	69 - 124	5	27
1,1-Dichloroethane	5.00	5.01		ug/L		100	68 - 135	4	27
cis-1,2-Dichloroethene	5.01	5.05		ug/L		101	73 - 130	4	20
2-Butanone	25.0	28.0		ug/L		112	30 - 150	5	35
Bromochloromethane	5.01	5.19		ug/L		104	71 - 131	7	20
Chloroform	5.00	5.03		ug/L		101	71 - 130	4	20
1,1,1-Trichloroethane	5.02	5.03		ug/L		100	56 - 150	4	29
Carbon tetrachloride	5.01	5.10		ug/L		102	54 - 150	1	30
Benzene	5.02	5.23		ug/L		104	73 - 120	3	20
1,2-Dichloroethane	5.00	5.27		ug/L		105	63 - 150	3	29
Trichloroethene	5.01	5.31		ug/L		106	72 - 123	0	20
1,2-Dichloropropane	5.00	5.09		ug/L		102	72 - 120	6	20
Dibromomethane	5.02	5.18		ug/L		103	65 - 137	4	20
Bromodichloromethane	5.02	5.12		ug/L		102	62 - 150	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-231711/7
Matrix: Water
Analysis Batch: 231711

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
cis-1,3-Dichloropropene			5.01	4.94		ug/L		99	54 - 150	3	28
4-Methyl-2-pentanone			25.0	27.9		ug/L		112	36 - 150	5	34
Toluene			5.00	5.22		ug/L		104	70 - 126	3	20
trans-1,3-Dichloropropene			5.00	4.95		ug/L		99	40 - 150	7	30
1,1,2-Trichloroethane			5.02	5.46		ug/L		109	62 - 137	3	30
Tetrachloroethene			5.01	4.95		ug/L		99	67 - 123	4	20
2-Hexanone			25.0	28.9		ug/L		116	25 - 150	4	28
Dibromochloromethane			5.01	5.32		ug/L		106	46 - 150	3	20
1,2-Dibromoethane			5.01	5.15		ug/L		103	56 - 146	3	20
Chlorobenzene			5.02	4.90		ug/L		98	74 - 114	6	12
1,1,1,2-Tetrachloroethane			5.02	5.09		ug/L		101	68 - 139	8	20
Ethylbenzene			5.02	5.21		ug/L		104	74 - 125	3	20
m,p-Xylene			5.01	5.14		ug/L		103	73 - 130	4	20
o-Xylene			5.01	5.14		ug/L		103	80 - 139	5	20
Styrene			5.01	5.12		ug/L		102	68 - 136	6	20
Bromoform			5.02	5.46		ug/L		109	51 - 137	3	20
1,1,2,2-Tetrachloroethane			5.01	5.05		ug/L		101	60 - 134	13	25
1,2,3-Trichloropropane			5.01	5.38		ug/L		107	45 - 150	8	20
trans-1,4-Dichloro-2-butene			5.00	5.21		ug/L		104	20 - 150	6	20
1,4-Dichlorobenzene			5.01	5.11		ug/L		102	77 - 120	8	11
1,2-Dichlorobenzene			5.00	5.20		ug/L		104	73 - 120	9	14
1,2-Dibromo-3-Chloropropane			5.01	5.66		ug/L		113	34 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-231385/1-A
Matrix: Water
Analysis Batch: 231859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
2,4-D	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
2,4-DB	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
4-Nitrophenol	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
Dalapon	ND		0.40		ug/L		11/02/16 15:20	11/08/16 13:00	1
Dicamba	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
Dichlorprop	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
Dinoseb	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
MCPA	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
Mecoprop	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1
Pentachlorophenol	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: MB 580-231385/1-A
Matrix: Water
Analysis Batch: 231859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.25		ug/L		11/02/16 15:20	11/08/16 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*51 - 150*	*11/02/16 15:20*	*11/08/16 13:00*	*1*

Lab Sample ID: LCS 580-231385/2-A
Matrix: Water
Analysis Batch: 231859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	2.84		ug/L		57	20 - 150
2,4-D	5.00	3.29		ug/L		66	20 - 150
2,4-DB	5.00	3.98		ug/L		80	50 - 150
4-Nitrophenol	5.00	3.61		ug/L		72	28 - 150
Dalapon	5.00	0.274	J *	ug/L		5	20 - 120
Dicamba	5.00	3.20		ug/L		64	20 - 150
Dichlorprop	5.00	3.59		ug/L		72	23 - 150
Dinoseb	5.00	4.09		ug/L		82	24 - 150
MCPA	5.00	3.80		ug/L		76	21 - 150
Mecoprop	5.00	3.92		ug/L		78	51 - 150
Pentachlorophenol	5.00	3.81		ug/L		76	48 - 150
Silvex (2,4,5-TP)	5.00	3.97		ug/L		79	24 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*64*		*51 - 150*

Lab Sample ID: LCSD 580-231385/3-A
Matrix: Water
Analysis Batch: 231859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 231385

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	5.00	3.00		ug/L		60	20 - 150	6	35
2,4-D	5.00	3.43		ug/L		69	20 - 150	4	35
2,4-DB	5.00	4.00		ug/L		80	50 - 150	1	35
4-Nitrophenol	5.00	3.39		ug/L		68	28 - 150	6	35
Dalapon	5.00	0.286	J *	ug/L		6	20 - 120	4	35
Dicamba	5.00	2.98		ug/L		60	20 - 150	7	35
Dichlorprop	5.00	3.50		ug/L		70	23 - 150	3	35
Dinoseb	5.00	3.68		ug/L		74	24 - 150	10	35
MCPA	5.00	3.64		ug/L		73	21 - 150	4	35
Mecoprop	5.00	3.80		ug/L		76	51 - 150	3	35
Pentachlorophenol	5.00	3.74		ug/L		75	48 - 150	2	35
Silvex (2,4,5-TP)	5.00	3.80		ug/L		76	24 - 150	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*62*		*51 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-231572/21-A
Matrix: Water
Analysis Batch: 231737

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 231572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		11/04/16 09:24	11/04/16 16:09	1
Iron	ND		0.30		mg/L		11/04/16 09:24	11/04/16 16:09	1
Magnesium	ND		1.1		mg/L		11/04/16 09:24	11/04/16 16:09	1
Manganese	ND		0.020		mg/L		11/04/16 09:24	11/04/16 16:09	1
Potassium	ND		3.3		mg/L		11/04/16 09:24	11/04/16 16:09	1
Sodium	ND		2.0		mg/L		11/04/16 09:24	11/04/16 16:09	1

Lab Sample ID: LCS 580-231572/22-A
Matrix: Water
Analysis Batch: 231737

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.2		mg/L		101	80 - 120
Iron	22.0	21.5		mg/L		98	80 - 120
Magnesium	20.0	19.9		mg/L		100	80 - 120
Manganese	1.00	0.982		mg/L		98	80 - 120
Potassium	20.0	19.9		mg/L		99	80 - 120
Sodium	20.0	20.6		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-231572/23-A
Matrix: Water
Analysis Batch: 231737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 231572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.2		mg/L		101	80 - 120	0	20
Iron	22.0	21.6		mg/L		98	80 - 120	0	20
Magnesium	20.0	19.9		mg/L		100	80 - 120	0	20
Manganese	1.00	0.986		mg/L		99	80 - 120	0	20
Potassium	20.0	19.9		mg/L		99	80 - 120	0	20
Sodium	20.0	20.6		mg/L		103	80 - 120	0	20

Lab Sample ID: 580-63627-1 MS
Matrix: Water
Analysis Batch: 231737

Client Sample ID: 1016-03
Prep Type: Dissolved
Prep Batch: 231572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	140		20.0	163	4	mg/L		100	75 - 125
Iron	ND		22.0	21.2		mg/L		96	75 - 125
Magnesium	55		20.0	74.7		mg/L		98	75 - 125
Manganese	ND		1.00	0.976		mg/L		98	75 - 125
Potassium	6.3		20.0	26.5		mg/L		101	75 - 125
Sodium	32		20.0	52.0		mg/L		101	75 - 125

Lab Sample ID: 580-63627-1 MSD
Matrix: Water
Analysis Batch: 231737

Client Sample ID: 1016-03
Prep Type: Dissolved
Prep Batch: 231572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	140		20.0	161	4	mg/L		91	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-63627-1 MSD
Matrix: Water
Analysis Batch: 231737

Client Sample ID: 1016-03
Prep Type: Dissolved
Prep Batch: 231572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		22.0	21.1		mg/L		96	75 - 125	1	20
Magnesium	55		20.0	74.1		mg/L		95	75 - 125	1	20
Manganese	ND		1.00	0.965		mg/L		96	75 - 125	1	20
Potassium	6.3		20.0	26.3		mg/L		100	75 - 125	1	20
Sodium	32		20.0	51.5		mg/L		99	75 - 125	1	20

Lab Sample ID: 580-63627-1 DU
Matrix: Water
Analysis Batch: 231737

Client Sample ID: 1016-03
Prep Type: Dissolved
Prep Batch: 231572

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	140		142		mg/L		0.6	20
Iron	ND		ND		mg/L		NC	20
Magnesium	55		54.7		mg/L		0.6	20
Manganese	ND		ND		mg/L		NC	20
Potassium	6.3		6.28		mg/L		0.6	20
Sodium	32		31.8		mg/L		0.2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-231591/21-A
Matrix: Water
Analysis Batch: 231835

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Arsenic	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:06	1
Barium	ND		0.0012		mg/L		11/04/16 10:35	11/07/16 23:06	1
Beryllium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Cadmium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Chromium	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Cobalt	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Copper	ND		0.0020		mg/L		11/04/16 10:35	11/07/16 23:06	1
Lead	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Nickel	ND		0.0030		mg/L		11/04/16 10:35	11/07/16 23:06	1
Selenium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:06	1
Silver	ND		0.00040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Thallium	ND		0.0010		mg/L		11/04/16 10:35	11/07/16 23:06	1
Vanadium	ND		0.0040		mg/L		11/04/16 10:35	11/07/16 23:06	1
Zinc	ND		0.0070		mg/L		11/04/16 10:35	11/07/16 23:06	1

Lab Sample ID: LCS 580-231591/22-A
Matrix: Water
Analysis Batch: 231835

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.00		mg/L		100	80 - 120
Arsenic	4.00	3.97		mg/L		99	80 - 120
Barium	4.00	4.08		mg/L		102	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-231591/22-A
Matrix: Water
Analysis Batch: 231835

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.100	0.100		mg/L		100	80 - 120
Cadmium	0.100	0.103		mg/L		103	80 - 120
Chromium	0.400	0.413		mg/L		103	80 - 120
Cobalt	1.00	0.984		mg/L		98	80 - 120
Copper	0.500	0.509		mg/L		102	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Nickel	1.00	0.995		mg/L		100	80 - 120
Selenium	4.00	3.92		mg/L		98	80 - 120
Silver	0.600	0.610		mg/L		102	80 - 120
Thallium	4.00	3.84		mg/L		96	80 - 120
Vanadium	1.00	1.03		mg/L		103	80 - 120
Zinc	4.00	3.99		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-231591/23-A
Matrix: Water
Analysis Batch: 231835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.97		mg/L		99	80 - 120	1	20
Arsenic	4.00	3.94		mg/L		98	80 - 120	1	20
Barium	4.00	4.06		mg/L		101	80 - 120	1	20
Beryllium	0.100	0.0983		mg/L		98	80 - 120	2	20
Cadmium	0.100	0.0998		mg/L		100	80 - 120	3	20
Chromium	0.400	0.414		mg/L		104	80 - 120	0	20
Cobalt	1.00	0.970		mg/L		97	80 - 120	1	20
Copper	0.500	0.508		mg/L		102	80 - 120	0	20
Lead	1.00	0.995		mg/L		100	80 - 120	1	20
Nickel	1.00	0.990		mg/L		99	80 - 120	1	20
Selenium	4.00	3.85		mg/L		96	80 - 120	2	20
Silver	0.600	0.602		mg/L		100	80 - 120	1	20
Thallium	4.00	3.84		mg/L		96	80 - 120	0	20
Vanadium	1.00	1.03		mg/L		103	80 - 120	1	20
Zinc	4.00	3.92		mg/L		98	80 - 120	2	20

Lab Sample ID: 580-63627-1 MS
Matrix: Water
Analysis Batch: 231835

Client Sample ID: 1016-03
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.06		mg/L		102	80 - 120
Arsenic	0.0040		4.00	4.15		mg/L		104	80 - 120
Barium	0.049		4.00	4.33		mg/L		107	80 - 120
Beryllium	ND		0.100	0.0992		mg/L		99	80 - 120
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120
Chromium	0.0055		0.400	0.445		mg/L		110	80 - 120
Cobalt	ND		1.00	1.02		mg/L		102	80 - 120
Copper	ND		0.500	0.533		mg/L		107	80 - 120
Lead	ND		1.00	1.05		mg/L		105	80 - 120
Nickel	ND		1.00	1.03		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-63627-1 MS
Matrix: Water
Analysis Batch: 231835

Client Sample ID: 1016-03
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		4.00	4.13		mg/L		103	80 - 120
Silver	ND		0.600	0.595		mg/L		99	80 - 120
Thallium	ND		4.00	4.08		mg/L		102	80 - 120
Vanadium	0.0084		1.00	1.09		mg/L		108	80 - 120
Zinc	ND		4.00	4.17		mg/L		104	80 - 120

Lab Sample ID: 580-63627-1 MSD
Matrix: Water
Analysis Batch: 231835

Client Sample ID: 1016-03
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.84		mg/L		95	80 - 120	8	20
Arsenic	0.0040		4.00	3.86		mg/L		96	80 - 120	7	20
Barium	0.049		4.00	4.03		mg/L		100	80 - 120	7	20
Beryllium	ND		0.100	0.0961		mg/L		96	80 - 120	3	20
Cadmium	ND		0.100	0.0944		mg/L		94	80 - 120	9	20
Chromium	0.0055		0.400	0.417		mg/L		103	80 - 120	7	20
Cobalt	ND		1.00	0.952		mg/L		95	80 - 120	7	20
Copper	ND		0.500	0.504		mg/L		101	80 - 120	6	20
Lead	ND		1.00	0.995		mg/L		99	80 - 120	6	20
Nickel	ND		1.00	0.955		mg/L		95	80 - 120	8	20
Selenium	ND		4.00	3.83		mg/L		96	80 - 120	8	20
Silver	ND		0.600	0.550		mg/L		92	80 - 120	8	20
Thallium	ND		4.00	3.81		mg/L		95	80 - 120	7	20
Vanadium	0.0084		1.00	1.02		mg/L		101	80 - 120	6	20
Zinc	ND		4.00	3.90		mg/L		97	80 - 120	7	20

Lab Sample ID: 580-63627-1 DU
Matrix: Water
Analysis Batch: 231835

Client Sample ID: 1016-03
Prep Type: Total Recoverable
Prep Batch: 231591

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0040		0.00385		mg/L		3	20
Barium	0.049		0.0498		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0055		0.00546		mg/L		0.4	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0084		0.00805		mg/L		4	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-231475/3
Matrix: Water
Analysis Batch: 231475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/16 08:11	1
Chloride	ND		0.90		mg/L			11/02/16 08:11	1
Sulfate	ND		1.2		mg/L			11/02/16 08:11	1

Lab Sample ID: LCS 580-231475/4
Matrix: Water
Analysis Batch: 231475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.22		mg/L		104	90 - 110
Chloride	50.0	52.6		mg/L		105	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: LCSD 580-231475/5
Matrix: Water
Analysis Batch: 231475

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
Fluoride	5.00	5.23		mg/L		105	90 - 110	0	15
Chloride	50.0	52.6		mg/L		105	90 - 110	0	15
Sulfate	50.0	51.9		mg/L		104	90 - 110	0	15

Lab Sample ID: MB 580-231851/3
Matrix: Water
Analysis Batch: 231851

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/07/16 13:26	1
Chloride	ND		0.90		mg/L			11/07/16 13:26	1
Sulfate	ND		1.2		mg/L			11/07/16 13:26	1

Lab Sample ID: LCS 580-231851/4
Matrix: Water
Analysis Batch: 231851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.99		mg/L		100	90 - 110
Chloride	50.0	49.6		mg/L		99	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: LCSD 580-231851/5
Matrix: Water
Analysis Batch: 231851

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
Fluoride	5.00	5.00		mg/L		100	90 - 110	0	15
Chloride	50.0	49.7		mg/L		99	90 - 110	0	15
Sulfate	50.0	49.2		mg/L		98	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-231327/1-A
Matrix: Water
Analysis Batch: 231510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		11/02/16 09:11	11/03/16 15:35	1

Lab Sample ID: LCS 580-231327/2-A
Matrix: Water
Analysis Batch: 231510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.97		mg/L		98	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-231186/14
Matrix: Water
Analysis Batch: 231186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 16:20	1

Lab Sample ID: MB 580-231186/48
Matrix: Water
Analysis Batch: 231186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			10/31/16 17:00	1

Lab Sample ID: LCS 580-231186/15
Matrix: Water
Analysis Batch: 231186

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	1.00	0.988		mg/L		99	90 - 110

Lab Sample ID: LCS 580-231186/49
Matrix: Water
Analysis Batch: 231186

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	1.00	0.968		mg/L		97	90 - 110

Lab Sample ID: LCSD 580-231186/16
Matrix: Water
Analysis Batch: 231186

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	1.00	0.983		mg/L		98	90 - 110	1	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCSD 580-231186/50
Matrix: Water
Analysis Batch: 231186

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			1.00	0.963		mg/L		96	90 - 110	1	20

Lab Sample ID: 580-63627-2 MS
Matrix: Water
Analysis Batch: 231186

Client Sample ID: 1016-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	0.500	0.390	F1	mg/L		76	90 - 110

Lab Sample ID: 580-63627-2 MSD
Matrix: Water
Analysis Batch: 231186

Client Sample ID: 1016-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.393	F1	mg/L		77	90 - 110	1	20

Lab Sample ID: 580-63627-14 MS
Matrix: Water
Analysis Batch: 231186

Client Sample ID: 1016-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	0.500	0.485		mg/L		93	90 - 110

Lab Sample ID: 580-63627-14 MSD
Matrix: Water
Analysis Batch: 231186

Client Sample ID: 1016-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.460	F1	mg/L		88	90 - 110	5	20

Lab Sample ID: 580-63627-14 DU
Matrix: Water
Analysis Batch: 231186

Client Sample ID: 1016-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-231060/2
Matrix: Water
Analysis Batch: 231060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity			100	94.5		mg/L		94	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 580-231119/2
Matrix: Water
Analysis Batch: 231119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	95.9		mg/L		96	85 - 115

Lab Sample ID: 580-63627-10 DU
Matrix: Water
Analysis Batch: 231119

Client Sample ID: 1016-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	510		497		mg/L		3	17
Bicarbonate Alkalinity as CaCO3	510		497		mg/L		3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-231001/1
Matrix: Water
Analysis Batch: 231001

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			10/29/16 10:59	1

Lab Sample ID: LCS 580-231001/2
Matrix: Water
Analysis Batch: 231001

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	1000	1010		mg/L		101	80 - 120

Lab Sample ID: 580-63627-10 DU
Matrix: Water
Analysis Batch: 231001

Client Sample ID: 1016-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		695		mg/L		0.6	20

Lab Sample ID: MB 580-231274/1
Matrix: Water
Analysis Batch: 231274

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/01/16 14:31	1

Lab Sample ID: LCS 580-231274/2
Matrix: Water
Analysis Batch: 231274

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	1000	984		mg/L		98	80 - 120

Method: SM 5220D - COD

Lab Sample ID: MB 580-231135/3-A
Matrix: Water
Analysis Batch: 231171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231135

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		10/31/16 12:55	10/31/16 12:55	1

Lab Sample ID: LCS 580-231135/4-A
Matrix: Water
Analysis Batch: 231171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	77.8		mg/L		104	80 - 120

Lab Sample ID: MB 580-231217/3-A
Matrix: Water
Analysis Batch: 231221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231217

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		11/01/16 09:39	11/01/16 09:39	1

Lab Sample ID: LCS 580-231217/4-A
Matrix: Water
Analysis Batch: 231221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	79.8		mg/L		106	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-231155/3
Matrix: Water
Analysis Batch: 231155

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			10/28/16 14:26	1

Lab Sample ID: LCS 580-231155/4
Matrix: Water
Analysis Batch: 231155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.09		mg/L		91	85 - 115

Lab Sample ID: MB 580-231592/3
Matrix: Water
Analysis Batch: 231592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/03/16 10:42	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-231592/4
Matrix: Water
Analysis Batch: 231592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	8.85		mg/L		89	85 - 115

Lab Sample ID: MB 580-231774/3
Matrix: Water
Analysis Batch: 231774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/04/16 13:18	1

Lab Sample ID: LCS 580-231774/4
Matrix: Water
Analysis Batch: 231774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.49		mg/L		95	85 - 115

Client Sample ID: 1016-03

Lab Sample ID: 580-63627-1

Date Collected: 10/25/16 09:40

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 05:38	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 16:18	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/07/16 23:24	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 09:10	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:40	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-04

Lab Sample ID: 580-63627-2

Date Collected: 10/25/16 10:58

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 06:06	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 16:43	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/07/16 23:20	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 09:28	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:42	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-07

Lab Sample ID: 580-63627-3

Date Collected: 10/25/16 12:43

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 06:34	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA

Client Sample ID: 1016-07

Lab Sample ID: 580-63627-3

Date Collected: 10/25/16 12:43

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	231737	11/04/16 16:46	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:14	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 09:46	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:45	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-06

Lab Sample ID: 580-63627-4

Date Collected: 10/25/16 14:35

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 07:02	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 16:50	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:18	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 10:05	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		10	231186	10/31/16 16:49	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-24

Lab Sample ID: 580-63627-5

Date Collected: 10/25/16 15:50

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 07:30	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 16:53	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA

Client Sample ID: 1016-24

Lab Sample ID: 580-63627-5

Date Collected: 10/25/16 15:50

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:23	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 10:23	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:50	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-30

Lab Sample ID: 580-63627-6

Date Collected: 10/25/16 16:37

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 07:58	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 16:57	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:27	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 10:42	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:51	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-29

Lab Sample ID: 580-63627-7

Date Collected: 10/25/16 17:40

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 08:26	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:00	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:32	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 11:00	RSB	TAL SEA

Client Sample ID: 1016-29

Lab Sample ID: 580-63627-7

Date Collected: 10/25/16 17:40

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		5	231186	10/31/16 16:52	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-12

Lab Sample ID: 580-63627-8

Date Collected: 10/26/16 09:40

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 08:55	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:03	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:36	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 11:18	RSB	TAL SEA
Total/NA	Analysis	300.0		10	231475	11/03/16 08:44	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		50	231186	10/31/16 16:53	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-18

Lab Sample ID: 580-63627-9

Date Collected: 10/26/16 11:10

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 09:23	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:06	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:41	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 11:37	RSB	TAL SEA
Total/NA	Analysis	300.0		10	231475	11/03/16 09:02	RSB	TAL SEA

Client Sample ID: 1016-18

Date Collected: 10/26/16 11:10
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		20	231186	10/31/16 16:54	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231060	10/28/16 17:50	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231155	10/28/16 14:26	Z1T	TAL SEA

Client Sample ID: 1016-17

Date Collected: 10/26/16 12:50
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 09:51	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:10	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:45	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231475	11/02/16 11:55	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		5	231186	10/31/16 16:56	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231119	10/31/16 11:52	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231001	10/29/16 10:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			231135	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231171	10/31/16 12:55	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231592	11/03/16 10:42	Z1T	TAL SEA

Client Sample ID: 1016-95

Date Collected: 10/26/16 14:10
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 10:20	JW1L	TAL SEA

Client Sample ID: 1016-98

Date Collected: 10/26/16 15:15
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 10:48	JW1L	TAL SEA

Client Sample ID: 1016-01

Lab Sample ID: 580-63627-13

Date Collected: 10/26/16 15:45

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 11:16	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:19	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/08/16 00:50	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231851	11/07/16 14:12	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 16:57	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231119	10/31/16 11:52	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231274	11/01/16 14:31	EMM	TAL SEA
Total/NA	Prep	SM 5220			231217	11/01/16 09:39	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231221	11/01/16 09:39	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231592	11/03/16 10:42	Z1T	TAL SEA

Client Sample ID: 1016-13

Lab Sample ID: 580-63627-14

Date Collected: 10/26/16 16:30

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 11:44	JW1L	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:22	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/07/16 22:21	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231851	11/07/16 14:28	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231186	10/31/16 17:04	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231119	10/31/16 11:52	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231274	11/01/16 14:31	EMM	TAL SEA
Total/NA	Prep	SM 5220			231217	11/01/16 09:39	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231221	11/01/16 09:39	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231774	11/04/16 13:18	Z1T	TAL SEA

Client Sample ID: 1016-26

Lab Sample ID: 580-63627-15

Date Collected: 10/26/16 17:37

Matrix: Water

Date Received: 10/27/16 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 12:12	JW1L	TAL SEA
Total/NA	Prep	8151A			231385	11/02/16 15:20	JCV	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Client Sample ID: 1016-26

Date Collected: 10/26/16 17:37
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8151A		1	231859	11/08/16 14:09	ERB	TAL SEA
Dissolved	Prep	3005A			231572	11/04/16 09:24	MKN	TAL SEA
Dissolved	Analysis	6010C		1	231737	11/04/16 17:26	HJM	TAL SEA
Total Recoverable	Prep	3005A			231591	11/04/16 10:35	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	231835	11/07/16 22:26	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231851	11/07/16 14:43	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231327	11/02/16 09:11	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231510	11/03/16 15:35	EMM	TAL SEA
Total/NA	Analysis	353.2		40	231186	10/31/16 17:08	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231119	10/31/16 11:52	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231274	11/01/16 14:31	EMM	TAL SEA
Total/NA	Prep	SM 5220			231217	11/01/16 09:39	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231221	11/01/16 09:39	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231774	11/04/16 13:18	Z1T	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 10/26/16 00:01
Date Received: 10/27/16 13:15

Lab Sample ID: 580-63627-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231711	11/05/16 05:09	JW1L	TAL SEA

Laboratory References:

SC0053 = OnSite Environmental Inc, 14648 NE 95th Street, Redmond, WA 98052

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-63627-1	1016-03	Water	10/25/16 09:40	10/27/16 13:15
580-63627-2	1016-04	Water	10/25/16 10:58	10/27/16 13:15
580-63627-3	1016-07	Water	10/25/16 12:43	10/27/16 13:15
580-63627-4	1016-06	Water	10/25/16 14:35	10/27/16 13:15
580-63627-5	1016-24	Water	10/25/16 15:50	10/27/16 13:15
580-63627-6	1016-30	Water	10/25/16 16:37	10/27/16 13:15
580-63627-7	1016-29	Water	10/25/16 17:40	10/27/16 13:15
580-63627-8	1016-12	Water	10/26/16 09:40	10/27/16 13:15
580-63627-9	1016-18	Water	10/26/16 11:10	10/27/16 13:15
580-63627-10	1016-17	Water	10/26/16 12:50	10/27/16 13:15
580-63627-11	1016-95	Water	10/26/16 14:10	10/27/16 13:15
580-63627-12	1016-98	Water	10/26/16 15:15	10/27/16 13:15
580-63627-13	1016-01	Water	10/26/16 15:45	10/27/16 13:15
580-63627-14	1016-13	Water	10/26/16 16:30	10/27/16 13:15
580-63627-15	1016-26	Water	10/26/16 17:37	10/27/16 13:15
580-63627-16	Trip Blank	Water	10/26/16 00:01	10/27/16 13:15

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 7, 2016

Cathy Gamble
Test America
5755 8th Street East
Tacoma, WA 98424

Re: Analytical Data for Project 580-63627-1
Laboratory Reference No. 1611-007

Dear Cathy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 1, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

Case Narrative

Samples were collected on October 25 and 26, 2016 and received by the laboratory on November 1, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-03 (580-63627-A-1)**					
Laboratory ID:	11-007-01					
Vinyl Chloride	0.032	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*94*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-04 (580-63627-A-2)**					
Laboratory ID:	11-007-02					
Vinyl Chloride	0.021	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*93*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-07 (580-63627-A-3)**					
Laboratory ID:	11-007-03					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-06 (580-63627-A-4)**					
Laboratory ID:	11-007-04					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-24 (580-63627-A-5)**					
Laboratory ID:	11-007-05					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-30 (580-63627-A-6)**					
Laboratory ID:	11-007-06					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*98*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-29 (580-63627-A-7)**					
Laboratory ID:	11-007-07					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-12 (580-63627-A-8)**					
Laboratory ID:	11-007-08					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-18 (580-63627-A-9)**					
Laboratory ID:	11-007-09					
Vinyl Chloride	0.052	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*77-129*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*91*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-17 (580-63627-A-10)**					
Laboratory ID:	11-007-10					
Vinyl Chloride	0.044	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*107*	*80-127*				
4-Bromofluorobenzene	*102*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-95 (580-63627-A-11)**					
Laboratory ID:	11-007-11					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-98 (580-63627-A-12)**					
Laboratory ID:	11-007-12					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*80-125*				

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Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-01 (580-63627-A-13)**					
Laboratory ID:	11-007-13					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-13 (580-63627-A-14)**					
Laboratory ID:	11-007-14					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-26 (580-63627-A-15)**					
Laboratory ID:	11-007-15					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank (580-63627-A-16)**					
Laboratory ID:	11-007-16					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*95*	*80-125*				

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Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VINYL CHLORIDE EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1104W1					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-4-16	11-4-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 7, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-007
Project: 580-63627-1

VOLATILES EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1104W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.18**	**8.88**	10.0	10.0	92	89	63-127	3	17	
Benzene	**10.3**	**10.0**	10.0	10.0	103	100	76-121	3	12	
Trichloroethene	**7.98**	**7.89**	10.0	10.0	80	79	64-114	1	15	
Toluene	**10.1**	**9.76**	10.0	10.0	101	98	82-115	3	13	
Chlorobenzene	**10.0**	**10.0**	10.0	10.0	100	100	80-115	0	14	
Surrogate:										
Dibromofluoromethane					*102*	*101*	*77-129*			
Toluene-d8					*101*	*102*	*80-127*			
4-Bromofluorobenzene					*98*	*95*	*80-125*			

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

11-007

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/10/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-41870.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 1 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-63627-1
Address: 14648 NE 95th Street,	Due Date Requested: ~~11/8/2016~~ 11/10/16 33			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste LF	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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 - Client ID (Lab ID)	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)	SUB (8260_LL (Vinyl Chloride only))/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	1016-03 (580-63627-1)	10/25/16	09:40 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
2	1016-04 (580-63627-2)	10/25/16	10:58 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
3	1016-07 (580-63627-3)	10/25/16	12:43 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
4	1016-06 (580-63627-4)	10/25/16	14:35 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
5	1016-24 (580-63627-5)	10/25/16	15:50 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
6	1016-30 (580-63627-6)	10/25/16	16:37 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
7	1016-29 (580-63627-7)	10/25/16	17:40 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
8	1016-12 (580-63627-8)	10/26/16	09:40 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
9	1016-18 (580-63627-9)	10/26/16	11:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	TA Sea	11/1/16	TA Sea		11/1/16 1155	OSE
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

11-007

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/10/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-41870.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 2 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-63627-1
Address: 14648 NE 95th Street, ,	Due Date Requested: ~~11/8/2016~~ 11/10/16 DB	Analysis Requested		Preservation Codes:
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste LF	Project #: 58009563			
Site:	SSOW#:			

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification - Client ID (Lab ID)	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)	SUB (8260_LL (Vinyl Chloride only))/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
10	1016-17 (580-63627-10)	10/26/16	12:50 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
11	1016-95 (580-63627-11)	10/26/16	14:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
12	1016-98 (580-63627-12)	10/26/16	15:15 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
13	1016-01 (580-63627-13)	10/26/16	15:45 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
14	1016-13 (580-63627-14)	10/26/16	16:30 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
15	1016-26 (580-63627-15)	10/26/16	17:37 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
16	Trip Blank (580-63627-16)	10/26/16	00:01 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/1/16	DASH		11/01/16	ONE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Venchiarutti	10/27/16	33509
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
2405 140th Ave NE Suite 107	425-766-2502	63627	
City / State / Zip Code	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Sarah Murphy (Formerly)	
Project Name and Location (State)	**Billing Contact**		
Coupeville Solid waste LF			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260B-LL	TDS	Cl, F, SO4	Nitrate Cantro	Special Instructions/ Conditions of Receipt
-1 1016-03*	10/25/16	940		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X	*Lost some acid from
1016-04		1058																					COD bottle from
-3 1016-07		1243																					sample 1016-03
1016-06		1435																					
-5 1016-24		1550																					
1016-30		1637																					
-7 1016-29		1740																					
1016-12	10/26/16	940																					
-9 1016-18		1110																					
1016-17		1250																					
-11 1016-95		1410																					
1016-98		1515																					

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify):

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Grabar	10/27/16	900	Francisco Luna, Jr	10/27/16	1315
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

580-63627 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
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Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Venchiarutti	10/27/16	33510
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2405 140th Ave NE Suite 107	425-766-2502	63627	
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Sarah Murphy (Formerly)	
Project Name and Location (State)	**Billing Contact**		
Cowlitz Solid Waste LF			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260B-LL	TDS	Cl, F, SO4	Nitrate Combo	8151 Herbicides	Special Instructions/ Conditions of Receipt
-13 1016-01	10/26/16	1545		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X		
1016-13	↓	1630		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X		
-15 1016-26		1737		X			5	4	2	3			X	X	X	X	X	X	X	X	X	X	X	
Trip blank	↓	-		X						3									X					

Cooler
☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Graber	10/27/16	900	/Francisco Luna, Jr	10/27/16	1315
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TB A2 Cooler Cor 5.2° Unc 5.4°
Cooler Dsc Lg Blue/wht @Lab —
Wet/Packs Packing Other
w/o

TB A2 Cooler Cor 6.3 Unc 6.5°
Cooler Dsc Lg Blue/wht @Lab —
Wet/Packs Packing other
w/o

TB A2 Cooler Cor 5.0° Unc 5.2°
Cooler Dsc Lg Blue/wht @Lab —
Wet/Packs Packing other
w/o

TB A2 Cooler Cor 6.0° Unc 6.2°
Cooler Dsc Lg Green/Blue @Lab —
Wet/Packs Packing other
w/o

TB A2 Cooler Cor 5.5° Unc 5.7°
Cooler Dsc Lg Blue/wht @Lab —
Wet/Packs Packing
w/o

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-63627-1

Login Number: 63627
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-63794-1
Client Project/Site: Coupeville Solid Waste LF

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
11/16/2016 2:54:34 PM

Cathy Gamble, Project Management Assistant I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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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Case Narrative

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Job ID: 580-63794-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 10/31/2016 11:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.9º C, 3.8º C, 3.8º C and 6.0º C.

Samples were sent to OnSite Environmental for Vinyl Chloride analysis with client permission due to instrumentation issues at TestAmerica.

Receipt Exceptions
The reference method (total/dissolved metals) requires samples to be preserved to a pH of <2. The following samples was received with insufficient preservation at a pH of 7: 1016-25 (580-63794-1), 1016-96 (580-63794-2), 1016-08 (580-63794-3), 1016-09 (580-63794-4), 1016-97 (580-63794-5), 1016-05 (580-63794-6), 1016-28 (580-63794-7), 1016-27 (580-63794-8), 1016-02 (580-63794-9), 1016-19 (580-63794-10), 1016-31 (580-63794-11), 1016-23 (580-63794-12), 1016-22 (580-63794-13) and Trip Blank (580-63794-14). Sample 580-63794-12 for Total metals only. The sample(s) was preserved to the appropriate pH in the laboratory. Nitric Acid Lot #0000133393 on 11/3/16 @10:15.

GC/MS VOA
Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-231763 was outside criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method 8260_LL (Vinyl Chloride only): This method was subcontracted to OnSite Environmental Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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)

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-25
Date Collected: 10/27/16 09:15
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 19:55	1
Bromomethane	ND		1.0		ug/L			11/05/16 19:55	1
Chloroethane	ND		0.50		ug/L			11/05/16 19:55	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 19:55	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 19:55	1
Methyl iodide	ND		0.50		ug/L			11/05/16 19:55	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 19:55	1
Acetone	ND		2.0		ug/L			11/05/16 19:55	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 19:55	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 19:55	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 19:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 19:55	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 19:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 19:55	1
2-Butanone	ND		15		ug/L			11/05/16 19:55	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 19:55	1
Chloroform	ND		0.20		ug/L			11/05/16 19:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 19:55	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 19:55	1
Benzene	ND		0.20		ug/L			11/05/16 19:55	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 19:55	1
Trichloroethene	ND		0.20		ug/L			11/05/16 19:55	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 19:55	1
Dibromomethane	ND		0.20		ug/L			11/05/16 19:55	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 19:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 19:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 19:55	1
Toluene	ND		0.40		ug/L			11/05/16 19:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 19:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 19:55	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 19:55	1
2-Hexanone	ND		2.0		ug/L			11/05/16 19:55	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 19:55	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 19:55	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 19:55	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 19:55	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 19:55	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 19:55	1
o-Xylene	ND		0.50		ug/L			11/05/16 19:55	1
Styrene	ND		0.50		ug/L			11/05/16 19:55	1
Bromoform	ND		0.50		ug/L			11/05/16 19:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 19:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 19:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 19:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 19:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 19:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 19:55	1

Client Sample ID: 1016-25

Date Collected: 10/27/16 09:15
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 19:55*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/05/16 19:55*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 19:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 19:55*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		11/11/16 11:29	11/15/16 18:14	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:14	1
Magnesium	**120**		1.1		mg/L		11/11/16 11:29	11/15/16 18:14	1
Manganese	**0.047**		0.020		mg/L		11/11/16 11:29	11/15/16 18:14	1
Potassium	**9.5**		3.3		mg/L		11/11/16 11:29	11/15/16 18:14	1
Sodium	**49**		2.0		mg/L		11/11/16 11:29	11/15/16 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00045**		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Arsenic	**0.0056**		0.0010		mg/L		11/11/16 12:53	11/14/16 16:49	1
Barium	**0.050**		0.0012		mg/L		11/11/16 12:53	11/14/16 16:49	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Chromium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Cobalt	**0.00075**		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 16:49	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Nickel	**0.0054**		0.0030		mg/L		11/11/16 12:53	11/14/16 16:49	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 16:49	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 16:49	1
Vanadium	**0.0073**		0.0040		mg/L		11/11/16 12:53	11/14/16 16:49	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 17:30	1
Chloride	**73**		0.90		mg/L			11/08/16 17:30	1
Sulfate	**56**		1.2		mg/L			11/08/16 17:30	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:19	1
Total Organic Carbon	**2.2**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**860**		5.0		mg/L			11/09/16 11:34	1
Bicarbonate Alkalinity as CaCO3	**860**		5.0		mg/L			11/09/16 11:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Total Dissolved Solids	**970**		20		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client Sample ID: 1016-96
Date Collected: 10/27/16 10:32
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 20:23	1
Bromomethane	ND		1.0		ug/L			11/05/16 20:23	1
Chloroethane	ND		0.50		ug/L			11/05/16 20:23	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 20:23	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 20:23	1
Methyl iodide	ND		0.50		ug/L			11/05/16 20:23	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 20:23	1
Acetone	ND		2.0		ug/L			11/05/16 20:23	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 20:23	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 20:23	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 20:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 20:23	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 20:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 20:23	1
2-Butanone	ND		15		ug/L			11/05/16 20:23	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 20:23	1
Chloroform	ND		0.20		ug/L			11/05/16 20:23	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 20:23	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 20:23	1
Benzene	ND		0.20		ug/L			11/05/16 20:23	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 20:23	1
Trichloroethene	ND		0.20		ug/L			11/05/16 20:23	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 20:23	1
Dibromomethane	ND		0.20		ug/L			11/05/16 20:23	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 20:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 20:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 20:23	1
Toluene	ND		0.40		ug/L			11/05/16 20:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 20:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 20:23	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 20:23	1
2-Hexanone	ND		2.0		ug/L			11/05/16 20:23	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 20:23	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 20:23	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 20:23	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 20:23	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 20:23	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 20:23	1
o-Xylene	ND		0.50		ug/L			11/05/16 20:23	1
Styrene	ND		0.50		ug/L			11/05/16 20:23	1
Bromoform	ND		0.50		ug/L			11/05/16 20:23	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 20:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 20:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 20:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 20:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 20:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 20:23	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-96
Date Collected: 10/27/16 10:32
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		11/05/16 20:23	1
Trifluorotoluene (Surr)	100		74 - 118		11/05/16 20:23	1
Dibromofluoromethane (Surr)	100		42 - 132		11/05/16 20:23	1
4-Bromofluorobenzene (Surr)	100		81 - 120		11/05/16 20:23	1
1,2-Dichloroethane-d4 (Surr)	102		46 - 150		11/05/16 20:23	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-08
Date Collected: 10/27/16 11:46
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 20:51	1
Bromomethane	ND		1.0		ug/L			11/05/16 20:51	1
Chloroethane	ND		0.50		ug/L			11/05/16 20:51	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 20:51	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 20:51	1
Methyl iodide	ND		0.50		ug/L			11/05/16 20:51	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 20:51	1
Acetone	ND		2.0		ug/L			11/05/16 20:51	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 20:51	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 20:51	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 20:51	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 20:51	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 20:51	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 20:51	1
2-Butanone	ND		15		ug/L			11/05/16 20:51	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 20:51	1
Chloroform	ND		0.20		ug/L			11/05/16 20:51	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 20:51	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 20:51	1
Benzene	ND		0.20		ug/L			11/05/16 20:51	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 20:51	1
Trichloroethene	ND		0.20		ug/L			11/05/16 20:51	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 20:51	1
Dibromomethane	ND		0.20		ug/L			11/05/16 20:51	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 20:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 20:51	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 20:51	1
Toluene	ND		0.40		ug/L			11/05/16 20:51	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 20:51	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 20:51	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 20:51	1
2-Hexanone	ND		2.0		ug/L			11/05/16 20:51	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 20:51	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 20:51	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 20:51	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 20:51	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 20:51	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 20:51	1
o-Xylene	ND		0.50		ug/L			11/05/16 20:51	1
Styrene	ND		0.50		ug/L			11/05/16 20:51	1
Bromoform	ND		0.50		ug/L			11/05/16 20:51	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 20:51	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 20:51	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 20:51	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 20:51	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 20:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 20:51	1

Client Sample ID: 1016-08

Date Collected: 10/27/16 11:46
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 20:51*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/05/16 20:51*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 20:51*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*11/05/16 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 20:51*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		11/11/16 11:29	11/15/16 18:17	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:17	1
Magnesium	**100**		1.1		mg/L		11/11/16 11:29	11/15/16 18:17	1
Manganese	**0.24**		0.020		mg/L		11/11/16 11:29	11/15/16 18:17	1
Potassium	**11**		3.3		mg/L		11/11/16 11:29	11/15/16 18:17	1
Sodium	**48**		2.0		mg/L		11/11/16 11:29	11/15/16 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Arsenic	**0.0042**		0.0010		mg/L		11/11/16 12:53	11/14/16 16:54	1
Barium	**0.092**		0.0012		mg/L		11/11/16 12:53	11/14/16 16:54	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Chromium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 16:54	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Nickel	**0.0084**		0.0030		mg/L		11/11/16 12:53	11/14/16 16:54	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 16:54	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 16:54	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 16:54	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 17:46	1
Chloride	**96**		9.0		mg/L			11/09/16 08:08	10
Sulfate	**61**		1.2		mg/L			11/08/16 17:46	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:23	1
Total Organic Carbon	**2.8**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**630**		5.0		mg/L			11/09/16 11:34	1
Bicarbonate Alkalinity as CaCO3	**630**		5.0		mg/L			11/09/16 11:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Total Dissolved Solids	**830**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-09
Date Collected: 10/27/16 13:15
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 21:19	1
Bromomethane	ND		1.0		ug/L			11/05/16 21:19	1
Chloroethane	ND		0.50		ug/L			11/05/16 21:19	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 21:19	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 21:19	1
Methyl iodide	ND		0.50		ug/L			11/05/16 21:19	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 21:19	1
Acetone	ND		2.0		ug/L			11/05/16 21:19	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 21:19	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 21:19	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 21:19	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 21:19	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 21:19	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 21:19	1
2-Butanone	ND		15		ug/L			11/05/16 21:19	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 21:19	1
Chloroform	ND		0.20		ug/L			11/05/16 21:19	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 21:19	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 21:19	1
Benzene	ND		0.20		ug/L			11/05/16 21:19	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 21:19	1
Trichloroethene	ND		0.20		ug/L			11/05/16 21:19	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 21:19	1
Dibromomethane	ND		0.20		ug/L			11/05/16 21:19	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 21:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 21:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 21:19	1
Toluene	ND		0.40		ug/L			11/05/16 21:19	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 21:19	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 21:19	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 21:19	1
2-Hexanone	ND		2.0		ug/L			11/05/16 21:19	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 21:19	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 21:19	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 21:19	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 21:19	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 21:19	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 21:19	1
o-Xylene	ND		0.50		ug/L			11/05/16 21:19	1
Styrene	ND		0.50		ug/L			11/05/16 21:19	1
Bromoform	ND		0.50		ug/L			11/05/16 21:19	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 21:19	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 21:19	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 21:19	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 21:19	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 21:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 21:19	1

Client Sample ID: 1016-09

Date Collected: 10/27/16 13:15
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 21:19*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*11/05/16 21:19*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 21:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 21:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 21:19*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**67**		1.1		mg/L		11/11/16 11:29	11/15/16 18:20	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:20	1
Magnesium	**43**		1.1		mg/L		11/11/16 11:29	11/15/16 18:20	1
Manganese	ND		0.020		mg/L		11/11/16 11:29	11/15/16 18:20	1
Potassium	**6.7**		3.3		mg/L		11/11/16 11:29	11/15/16 18:20	1
Sodium	**27**		2.0		mg/L		11/11/16 11:29	11/15/16 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Arsenic	**0.0036**		0.0010		mg/L		11/11/16 12:53	11/14/16 16:58	1
Barium	**0.030**		0.0012		mg/L		11/11/16 12:53	11/14/16 16:58	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Chromium	**0.00044**		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 16:58	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Nickel	ND		0.0030		mg/L		11/11/16 12:53	11/14/16 16:58	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 16:58	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 16:58	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 16:58	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 18:01	1
Chloride	**43**		0.90		mg/L			11/08/16 18:01	1
Sulfate	**34**		1.2		mg/L			11/08/16 18:01	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:24	1
Total Organic Carbon	**1.4**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			11/09/16 11:34	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			11/09/16 11:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Total Dissolved Solids	**430**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-97
Date Collected: 10/27/16 14:20
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 21:47	1
Bromomethane	ND		1.0		ug/L			11/05/16 21:47	1
Chloroethane	ND		0.50		ug/L			11/05/16 21:47	1
Trichlorofluoromethane	**71**		0.50		ug/L			11/05/16 21:47	1
1,1-Dichloroethene	**3.3**		0.10		ug/L			11/05/16 21:47	1
Methyl iodide	ND		0.50		ug/L			11/05/16 21:47	1
Carbon disulfide	**0.29**		0.20		ug/L			11/05/16 21:47	1
Acetone	ND		2.0		ug/L			11/05/16 21:47	1
Methylene Chloride	**0.92**		0.50		ug/L			11/05/16 21:47	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 21:47	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 21:47	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 21:47	1
1,1-Dichloroethane	**2.8**		0.20		ug/L			11/05/16 21:47	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 21:47	1
2-Butanone	ND		15		ug/L			11/05/16 21:47	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 21:47	1
Chloroform	**0.26**		0.20		ug/L			11/05/16 21:47	1
1,1,1-Trichloroethane	**0.96**		0.20		ug/L			11/05/16 21:47	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 21:47	1
Benzene	ND		0.20		ug/L			11/05/16 21:47	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 21:47	1
Trichloroethene	ND		0.20		ug/L			11/05/16 21:47	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 21:47	1
Dibromomethane	ND		0.20		ug/L			11/05/16 21:47	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 21:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 21:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 21:47	1
Toluene	ND		0.40		ug/L			11/05/16 21:47	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 21:47	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 21:47	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 21:47	1
2-Hexanone	ND		2.0		ug/L			11/05/16 21:47	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 21:47	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 21:47	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 21:47	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 21:47	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 21:47	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 21:47	1
o-Xylene	ND		0.50		ug/L			11/05/16 21:47	1
Styrene	ND		0.50		ug/L			11/05/16 21:47	1
Bromoform	ND		0.50		ug/L			11/05/16 21:47	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 21:47	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 21:47	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 21:47	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 21:47	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 21:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 21:47	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-97
Date Collected: 10/27/16 14:20
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		75 - 125		11/05/16 21:47	1
Trifluorotoluene (Surr)	104		74 - 118		11/05/16 21:47	1
Dibromofluoromethane (Surr)	104		42 - 132		11/05/16 21:47	1
4-Bromofluorobenzene (Surr)	101		81 - 120		11/05/16 21:47	1
1,2-Dichloroethane-d4 (Surr)	105		46 - 150		11/05/16 21:47	1

Client Sample ID: 1016-05
Date Collected: 10/27/16 15:00
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 22:16	1
Bromomethane	ND		1.0		ug/L			11/05/16 22:16	1
Chloroethane	ND		0.50		ug/L			11/05/16 22:16	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 22:16	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 22:16	1
Methyl iodide	ND		0.50		ug/L			11/05/16 22:16	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 22:16	1
Acetone	ND		2.0		ug/L			11/05/16 22:16	1
Methylene Chloride	**0.67**		0.50		ug/L			11/05/16 22:16	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 22:16	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 22:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 22:16	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 22:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 22:16	1
2-Butanone	ND		15		ug/L			11/05/16 22:16	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 22:16	1
Chloroform	ND		0.20		ug/L			11/05/16 22:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 22:16	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 22:16	1
Benzene	ND		0.20		ug/L			11/05/16 22:16	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 22:16	1
Trichloroethene	ND		0.20		ug/L			11/05/16 22:16	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 22:16	1
Dibromomethane	ND		0.20		ug/L			11/05/16 22:16	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 22:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 22:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 22:16	1
Toluene	ND		0.40		ug/L			11/05/16 22:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 22:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 22:16	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 22:16	1
2-Hexanone	ND		2.0		ug/L			11/05/16 22:16	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 22:16	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 22:16	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 22:16	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 22:16	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 22:16	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 22:16	1
o-Xylene	ND		0.50		ug/L			11/05/16 22:16	1
Styrene	ND		0.50		ug/L			11/05/16 22:16	1
Bromoform	ND		0.50		ug/L			11/05/16 22:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 22:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 22:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 22:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 22:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 22:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 22:16	1

Client Sample ID: 1016-05
Date Collected: 10/27/16 15:00
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 22:16*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/05/16 22:16*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 22:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 22:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*11/05/16 22:16*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**43**		1.1		mg/L		11/11/16 11:29	11/15/16 18:24	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:24	1
Magnesium	**32**		1.1		mg/L		11/11/16 11:29	11/15/16 18:24	1
Manganese	**0.091**		0.020		mg/L		11/11/16 11:29	11/15/16 18:24	1
Potassium	**12**		3.3		mg/L		11/11/16 11:29	11/15/16 18:24	1
Sodium	**22**		2.0		mg/L		11/11/16 11:29	11/15/16 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00049**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Arsenic	**0.026**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:03	1
Barium	**0.058**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:03	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Chromium	**0.0027**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Copper	**0.0077**		0.0020		mg/L		11/11/16 12:53	11/14/16 17:03	1
Lead	**0.0054**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Nickel	ND		0.0030		mg/L		11/11/16 12:53	11/14/16 17:03	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:03	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:03	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 17:03	1
Zinc	**1.2**		0.0070		mg/L		11/11/16 12:53	11/14/16 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 18:16	1
Chloride	**35**		0.90		mg/L			11/08/16 18:16	1
Sulfate	**7.7**		1.2		mg/L			11/08/16 18:16	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:25	1
Total Organic Carbon	**1.2**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**210**		5.0		mg/L			11/09/16 11:34	1
Bicarbonate Alkalinity as CaCO3	**210**		5.0		mg/L			11/09/16 11:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Total Dissolved Solids	**290**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-28
Date Collected: 10/28/16 09:13
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 22:44	1
Bromomethane	ND		1.0		ug/L			11/05/16 22:44	1
Chloroethane	ND		0.50		ug/L			11/05/16 22:44	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 22:44	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 22:44	1
Methyl iodide	ND		0.50		ug/L			11/05/16 22:44	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 22:44	1
Acetone	ND		2.0		ug/L			11/05/16 22:44	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 22:44	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 22:44	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 22:44	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 22:44	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 22:44	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 22:44	1
2-Butanone	ND		15		ug/L			11/05/16 22:44	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 22:44	1
Chloroform	ND		0.20		ug/L			11/05/16 22:44	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 22:44	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 22:44	1
Benzene	ND		0.20		ug/L			11/05/16 22:44	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 22:44	1
Trichloroethene	ND		0.20		ug/L			11/05/16 22:44	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 22:44	1
Dibromomethane	ND		0.20		ug/L			11/05/16 22:44	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 22:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 22:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 22:44	1
Toluene	ND		0.40		ug/L			11/05/16 22:44	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 22:44	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 22:44	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 22:44	1
2-Hexanone	ND		2.0		ug/L			11/05/16 22:44	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 22:44	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 22:44	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 22:44	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 22:44	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 22:44	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 22:44	1
o-Xylene	ND		0.50		ug/L			11/05/16 22:44	1
Styrene	ND		0.50		ug/L			11/05/16 22:44	1
Bromoform	ND		0.50		ug/L			11/05/16 22:44	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 22:44	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 22:44	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 22:44	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 22:44	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 22:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 22:44	1

Client Sample ID: 1016-28

Date Collected: 10/28/16 09:13
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/05/16 22:44*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*11/05/16 22:44*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 22:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/05/16 22:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/05/16 22:44*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		11/11/16 11:29	11/15/16 18:33	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:33	1
Magnesium	**49**		1.1		mg/L		11/11/16 11:29	11/15/16 18:33	1
Manganese	ND		0.020		mg/L		11/11/16 11:29	11/15/16 18:33	1
Potassium	**5.8**		3.3		mg/L		11/11/16 11:29	11/15/16 18:33	1
Sodium	**32**		2.0		mg/L		11/11/16 11:29	11/15/16 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Arsenic	**0.0059**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:07	1
Barium	**0.026**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:07	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Chromium	**0.0079**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:07	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Nickel	ND		0.0030		mg/L		11/11/16 12:53	11/14/16 17:07	1
Selenium	**0.0018**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:07	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:07	1
Vanadium	**0.0052**		0.0040		mg/L		11/11/16 12:53	11/14/16 17:07	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 18:32	1
Chloride	**62**		0.90		mg/L			11/08/16 18:32	1
Sulfate	**38**		1.2		mg/L			11/08/16 18:32	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	**1.3**		0.050		mg/L			11/08/16 13:26	1
Total Organic Carbon	**2.5**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0		mg/L			11/09/16 11:34	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			11/09/16 11:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Total Dissolved Solids	**490**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-27
Date Collected: 10/28/16 10:10
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 23:12	1
Bromomethane	ND		1.0		ug/L			11/05/16 23:12	1
Chloroethane	ND		0.50		ug/L			11/05/16 23:12	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 23:12	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 23:12	1
Methyl iodide	ND		0.50		ug/L			11/05/16 23:12	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 23:12	1
Acetone	ND		2.0		ug/L			11/05/16 23:12	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 23:12	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 23:12	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 23:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 23:12	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 23:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 23:12	1
2-Butanone	ND		15		ug/L			11/05/16 23:12	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 23:12	1
Chloroform	ND		0.20		ug/L			11/05/16 23:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 23:12	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 23:12	1
Benzene	ND		0.20		ug/L			11/05/16 23:12	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 23:12	1
Trichloroethene	ND		0.20		ug/L			11/05/16 23:12	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 23:12	1
Dibromomethane	ND		0.20		ug/L			11/05/16 23:12	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 23:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 23:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 23:12	1
Toluene	ND		0.40		ug/L			11/05/16 23:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 23:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 23:12	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 23:12	1
2-Hexanone	ND		2.0		ug/L			11/05/16 23:12	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 23:12	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 23:12	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 23:12	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 23:12	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 23:12	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 23:12	1
o-Xylene	ND		0.50		ug/L			11/05/16 23:12	1
Styrene	ND		0.50		ug/L			11/05/16 23:12	1
Bromoform	ND		0.50		ug/L			11/05/16 23:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 23:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 23:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 23:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 23:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 23:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 23:12	1

Client Sample ID: 1016-27
Date Collected: 10/28/16 10:10
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 23:12*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*11/05/16 23:12*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/05/16 23:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 23:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 23:12*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**70**		1.1		mg/L		11/11/16 11:29	11/15/16 18:37	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:37	1
Magnesium	**62**		1.1		mg/L		11/11/16 11:29	11/15/16 18:37	1
Manganese	**0.19**		0.020		mg/L		11/11/16 11:29	11/15/16 18:37	1
Potassium	**8.0**		3.3		mg/L		11/11/16 11:29	11/15/16 18:37	1
Sodium	**35**		2.0		mg/L		11/11/16 11:29	11/15/16 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Arsenic	**0.012**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:12	1
Barium	**0.048**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:12	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Chromium	**0.00048**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:12	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Nickel	ND		0.0030		mg/L		11/11/16 12:53	11/14/16 17:12	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:12	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:12	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 17:12	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 18:47	1
Chloride	**66**		0.90		mg/L			11/08/16 18:47	1
Sulfate	**25**		1.2		mg/L			11/08/16 18:47	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:27	1
Total Organic Carbon	**2.1**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			11/09/16 11:34	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			11/09/16 11:34	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 11:34	1
Total Dissolved Solids	**520**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-02
Date Collected: 10/28/16 11:40
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 23:40	1
Bromomethane	ND		1.0		ug/L			11/05/16 23:40	1
Chloroethane	ND		0.50		ug/L			11/05/16 23:40	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 23:40	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 23:40	1
Methyl iodide	ND		0.50		ug/L			11/05/16 23:40	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 23:40	1
Acetone	ND		2.0		ug/L			11/05/16 23:40	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 23:40	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 23:40	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 23:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 23:40	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 23:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 23:40	1
2-Butanone	ND		15		ug/L			11/05/16 23:40	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 23:40	1
Chloroform	ND		0.20		ug/L			11/05/16 23:40	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 23:40	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 23:40	1
Benzene	ND		0.20		ug/L			11/05/16 23:40	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 23:40	1
Trichloroethene	ND		0.20		ug/L			11/05/16 23:40	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 23:40	1
Dibromomethane	ND		0.20		ug/L			11/05/16 23:40	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 23:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 23:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 23:40	1
Toluene	ND		0.40		ug/L			11/05/16 23:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 23:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 23:40	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 23:40	1
2-Hexanone	ND		2.0		ug/L			11/05/16 23:40	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 23:40	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 23:40	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 23:40	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 23:40	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 23:40	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 23:40	1
o-Xylene	ND		0.50		ug/L			11/05/16 23:40	1
Styrene	ND		0.50		ug/L			11/05/16 23:40	1
Bromoform	ND		0.50		ug/L			11/05/16 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 23:40	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 23:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 23:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 23:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 23:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 23:40	1

Client Sample ID: 1016-02
Date Collected: 10/28/16 11:40
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*11/05/16 23:40*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/05/16 23:40*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/05/16 23:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/05/16 23:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/05/16 23:40*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		11/11/16 11:29	11/15/16 18:40	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:40	1
Magnesium	**44**		1.1		mg/L		11/11/16 11:29	11/15/16 18:40	1
Manganese	**0.24**		0.020		mg/L		11/11/16 11:29	11/15/16 18:40	1
Potassium	**6.6**		3.3		mg/L		11/11/16 11:29	11/15/16 18:40	1
Sodium	**27**		2.0		mg/L		11/11/16 11:29	11/15/16 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Arsenic	**0.0067**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:16	1
Barium	**0.031**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:16	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Chromium	**0.0011**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:16	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Nickel	ND		0.0030		mg/L		11/11/16 12:53	11/14/16 17:16	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:16	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:16	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 17:16	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 19:03	1
Chloride	**33**	**F1**	0.90		mg/L			11/08/16 19:03	1
Sulfate	**15**		1.2		mg/L			11/08/16 19:03	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:29	1
Total Organic Carbon	**1.3**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			11/09/16 12:39	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			11/09/16 12:39	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Total Dissolved Solids	**430**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-19
Date Collected: 10/28/16 13:03
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/06/16 00:08	1
Bromomethane	ND		1.0		ug/L			11/06/16 00:08	1
Chloroethane	ND		0.50		ug/L			11/06/16 00:08	1
Trichlorofluoromethane	**4.8**		0.50		ug/L			11/06/16 00:08	1
1,1-Dichloroethene	ND		0.10		ug/L			11/06/16 00:08	1
Methyl iodide	ND		0.50		ug/L			11/06/16 00:08	1
Carbon disulfide	ND		0.20		ug/L			11/06/16 00:08	1
Acetone	ND		2.0		ug/L			11/06/16 00:08	1
Methylene Chloride	ND		0.50		ug/L			11/06/16 00:08	1
Acrylonitrile	ND		5.0		ug/L			11/06/16 00:08	1
Vinyl acetate	ND		1.0		ug/L			11/06/16 00:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/06/16 00:08	1
1,1-Dichloroethane	ND		0.20		ug/L			11/06/16 00:08	1
cis-1,2-Dichloroethene	**0.38**		0.20		ug/L			11/06/16 00:08	1
2-Butanone	ND		15		ug/L			11/06/16 00:08	1
Bromochloromethane	ND		0.20		ug/L			11/06/16 00:08	1
Chloroform	ND		0.20		ug/L			11/06/16 00:08	1
1,1,1-Trichloroethane	**0.61**		0.20		ug/L			11/06/16 00:08	1
Carbon tetrachloride	ND		0.20		ug/L			11/06/16 00:08	1
Benzene	ND		0.20		ug/L			11/06/16 00:08	1
1,2-Dichloroethane	ND		0.20		ug/L			11/06/16 00:08	1
Trichloroethene	**0.25**		0.20		ug/L			11/06/16 00:08	1
1,2-Dichloropropane	ND		0.20		ug/L			11/06/16 00:08	1
Dibromomethane	ND		0.20		ug/L			11/06/16 00:08	1
Bromodichloromethane	ND		0.20		ug/L			11/06/16 00:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 00:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/06/16 00:08	1
Toluene	ND		0.40		ug/L			11/06/16 00:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/06/16 00:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/06/16 00:08	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 00:08	1
2-Hexanone	ND		2.0		ug/L			11/06/16 00:08	1
Dibromochloromethane	ND		0.20		ug/L			11/06/16 00:08	1
1,2-Dibromoethane	ND		0.10		ug/L			11/06/16 00:08	1
Chlorobenzene	ND		0.20		ug/L			11/06/16 00:08	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 00:08	1
Ethylbenzene	ND		0.20		ug/L			11/06/16 00:08	1
m,p-Xylene	ND		0.50		ug/L			11/06/16 00:08	1
o-Xylene	ND		0.50		ug/L			11/06/16 00:08	1
Styrene	ND		0.50		ug/L			11/06/16 00:08	1
Bromoform	ND		0.50		ug/L			11/06/16 00:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 00:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/06/16 00:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/06/16 00:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/06/16 00:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/06/16 00:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/06/16 00:08	1

Client Sample ID: 1016-19

Date Collected: 10/28/16 13:03
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/06/16 00:08*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/06/16 00:08*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*11/06/16 00:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/06/16 00:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*11/06/16 00:08*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		11/11/16 11:29	11/15/16 18:43	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:43	1
Magnesium	**65**		1.1		mg/L		11/11/16 11:29	11/15/16 18:43	1
Manganese	ND		0.020		mg/L		11/11/16 11:29	11/15/16 18:43	1
Potassium	**6.0**		3.3		mg/L		11/11/16 11:29	11/15/16 18:43	1
Sodium	**31**		2.0		mg/L		11/11/16 11:29	11/15/16 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Arsenic	**0.0022**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:21	1
Barium	**0.048**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:21	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Chromium	**0.0099**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:21	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Nickel	**0.0071**		0.0030		mg/L		11/11/16 12:53	11/14/16 17:21	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:21	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:21	1
Vanadium	**0.0040**		0.0040		mg/L		11/11/16 12:53	11/14/16 17:21	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.61**		0.20		mg/L			11/09/16 10:38	1
Chloride	**4.6**		0.90		mg/L			11/09/16 10:38	1
Sulfate	**200**		12		mg/L			11/10/16 08:09	10
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	**4.6**		0.25		mg/L			11/08/16 16:12	5
Total Organic Carbon	**3.9**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		5.0		mg/L			11/09/16 12:39	1
Bicarbonate Alkalinity as CaCO3	**490**		5.0		mg/L			11/09/16 12:39	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Total Dissolved Solids	**850**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	**19**		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client Sample ID: 1016-31
Date Collected: 10/28/16 13:10
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/06/16 00:37	1
Bromomethane	ND		1.0		ug/L			11/06/16 00:37	1
Chloroethane	ND		0.50		ug/L			11/06/16 00:37	1
Trichlorofluoromethane	**4.3**		0.50		ug/L			11/06/16 00:37	1
1,1-Dichloroethene	**0.14**		0.10		ug/L			11/06/16 00:37	1
Methyl iodide	ND		0.50		ug/L			11/06/16 00:37	1
Carbon disulfide	ND		0.20		ug/L			11/06/16 00:37	1
Acetone	ND		2.0		ug/L			11/06/16 00:37	1
Methylene Chloride	ND		0.50		ug/L			11/06/16 00:37	1
Acrylonitrile	ND		5.0		ug/L			11/06/16 00:37	1
Vinyl acetate	ND		1.0		ug/L			11/06/16 00:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/06/16 00:37	1
1,1-Dichloroethane	ND		0.20		ug/L			11/06/16 00:37	1
cis-1,2-Dichloroethene	**0.37**		0.20		ug/L			11/06/16 00:37	1
2-Butanone	ND		15		ug/L			11/06/16 00:37	1
Bromochloromethane	ND		0.20		ug/L			11/06/16 00:37	1
Chloroform	ND		0.20		ug/L			11/06/16 00:37	1
1,1,1-Trichloroethane	**0.57**		0.20		ug/L			11/06/16 00:37	1
Carbon tetrachloride	ND		0.20		ug/L			11/06/16 00:37	1
Benzene	ND		0.20		ug/L			11/06/16 00:37	1
1,2-Dichloroethane	ND		0.20		ug/L			11/06/16 00:37	1
Trichloroethene	**0.24**		0.20		ug/L			11/06/16 00:37	1
1,2-Dichloropropane	ND		0.20		ug/L			11/06/16 00:37	1
Dibromomethane	ND		0.20		ug/L			11/06/16 00:37	1
Bromodichloromethane	ND		0.20		ug/L			11/06/16 00:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 00:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/06/16 00:37	1
Toluene	ND		0.40		ug/L			11/06/16 00:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/06/16 00:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/06/16 00:37	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 00:37	1
2-Hexanone	ND		2.0		ug/L			11/06/16 00:37	1
Dibromochloromethane	ND		0.20		ug/L			11/06/16 00:37	1
1,2-Dibromoethane	ND		0.10		ug/L			11/06/16 00:37	1
Chlorobenzene	ND		0.20		ug/L			11/06/16 00:37	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 00:37	1
Ethylbenzene	ND		0.20		ug/L			11/06/16 00:37	1
m,p-Xylene	ND		0.50		ug/L			11/06/16 00:37	1
o-Xylene	ND		0.50		ug/L			11/06/16 00:37	1
Styrene	ND		0.50		ug/L			11/06/16 00:37	1
Bromoform	ND		0.50		ug/L			11/06/16 00:37	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 00:37	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/06/16 00:37	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/06/16 00:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/06/16 00:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/06/16 00:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/06/16 00:37	1

Client Sample ID: 1016-31

Date Collected: 10/28/16 13:10
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/06/16 00:37*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/06/16 00:37*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/06/16 00:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/06/16 00:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/06/16 00:37*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		11/11/16 11:29	11/15/16 18:47	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:47	1
Magnesium	**66**		1.1		mg/L		11/11/16 11:29	11/15/16 18:47	1
Manganese	ND		0.020		mg/L		11/11/16 11:29	11/15/16 18:47	1
Potassium	**6.0**		3.3		mg/L		11/11/16 11:29	11/15/16 18:47	1
Sodium	**31**		2.0		mg/L		11/11/16 11:29	11/15/16 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Arsenic	**0.0022**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:25	1
Barium	**0.048**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:25	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Chromium	**0.010**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:25	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Nickel	**0.0071**		0.0030		mg/L		11/11/16 12:53	11/14/16 17:25	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:25	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:25	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 17:25	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.61**		0.20		mg/L			11/09/16 10:53	1
Chloride	**4.6**		0.90		mg/L			11/09/16 10:53	1
Sulfate	**200**		12		mg/L			11/10/16 08:24	10
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	**4.7**		0.25		mg/L			11/08/16 16:13	5
Total Organic Carbon	**7.6**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**480**		5.0		mg/L			11/09/16 12:39	1
Bicarbonate Alkalinity as CaCO3	**480**		5.0		mg/L			11/09/16 12:39	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Total Dissolved Solids	**860**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	**14**		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-23
Date Collected: 10/28/16 14:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/06/16 01:06	1
Bromomethane	ND		1.0		ug/L			11/06/16 01:06	1
Chloroethane	ND		0.50		ug/L			11/06/16 01:06	1
Trichlorofluoromethane	**1.4**		0.50		ug/L			11/06/16 01:06	1
1,1-Dichloroethene	ND		0.10		ug/L			11/06/16 01:06	1
Methyl iodide	ND		0.50		ug/L			11/06/16 01:06	1
Carbon disulfide	ND		0.20		ug/L			11/06/16 01:06	1
Acetone	ND		2.0		ug/L			11/06/16 01:06	1
Methylene Chloride	ND		0.50		ug/L			11/06/16 01:06	1
Acrylonitrile	ND		5.0		ug/L			11/06/16 01:06	1
Vinyl acetate	ND		1.0		ug/L			11/06/16 01:06	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/06/16 01:06	1
1,1-Dichloroethane	ND		0.20		ug/L			11/06/16 01:06	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/06/16 01:06	1
2-Butanone	ND		15		ug/L			11/06/16 01:06	1
Bromochloromethane	ND		0.20		ug/L			11/06/16 01:06	1
Chloroform	ND		0.20		ug/L			11/06/16 01:06	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/06/16 01:06	1
Carbon tetrachloride	ND		0.20		ug/L			11/06/16 01:06	1
Benzene	ND		0.20		ug/L			11/06/16 01:06	1
1,2-Dichloroethane	ND		0.20		ug/L			11/06/16 01:06	1
Trichloroethene	ND		0.20		ug/L			11/06/16 01:06	1
1,2-Dichloropropane	ND		0.20		ug/L			11/06/16 01:06	1
Dibromomethane	ND		0.20		ug/L			11/06/16 01:06	1
Bromodichloromethane	ND		0.20		ug/L			11/06/16 01:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 01:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/06/16 01:06	1
Toluene	ND		0.40		ug/L			11/06/16 01:06	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/06/16 01:06	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/06/16 01:06	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 01:06	1
2-Hexanone	ND		2.0		ug/L			11/06/16 01:06	1
Dibromochloromethane	ND		0.20		ug/L			11/06/16 01:06	1
1,2-Dibromoethane	ND		0.10		ug/L			11/06/16 01:06	1
Chlorobenzene	ND		0.20		ug/L			11/06/16 01:06	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 01:06	1
Ethylbenzene	ND		0.20		ug/L			11/06/16 01:06	1
m,p-Xylene	ND		0.50		ug/L			11/06/16 01:06	1
o-Xylene	ND		0.50		ug/L			11/06/16 01:06	1
Styrene	ND		0.50		ug/L			11/06/16 01:06	1
Bromoform	ND		0.50		ug/L			11/06/16 01:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 01:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/06/16 01:06	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/06/16 01:06	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/06/16 01:06	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/06/16 01:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/06/16 01:06	1

Client Sample ID: 1016-23

Date Collected: 10/28/16 14:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/06/16 01:06*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*11/06/16 01:06*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/06/16 01:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*11/06/16 01:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/06/16 01:06*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		11/11/16 11:29	11/15/16 18:50	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:50	1
Magnesium	**71**		1.1		mg/L		11/11/16 11:29	11/15/16 18:50	1
Manganese	**0.37**		0.020		mg/L		11/11/16 11:29	11/15/16 18:50	1
Potassium	**7.7**		3.3		mg/L		11/11/16 11:29	11/15/16 18:50	1
Sodium	**34**		2.0		mg/L		11/11/16 11:29	11/15/16 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Arsenic	**0.0022**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:48	1
Barium	**0.064**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:48	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Chromium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Cobalt	**0.00096**		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:48	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Nickel	**0.0049**		0.0030		mg/L		11/11/16 12:53	11/14/16 17:48	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:48	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:48	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 17:48	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.72**		0.20		mg/L			11/09/16 11:08	1
Chloride	**22**		0.90		mg/L			11/09/16 11:08	1
Sulfate	**63**		1.2		mg/L			11/09/16 11:08	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	**8.7**	**F1**	0.50		mg/L			11/08/16 16:14	10
Total Organic Carbon	**1.8**		1.0		mg/L			11/07/16 13:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**640**		5.0		mg/L			11/09/16 12:39	1
Bicarbonate Alkalinity as CaCO3	**640**		5.0		mg/L			11/09/16 12:39	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Total Dissolved Solids	**810**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-22
Date Collected: 10/28/16 15:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/06/16 01:34	1
Bromomethane	ND		1.0		ug/L			11/06/16 01:34	1
Chloroethane	ND		0.50		ug/L			11/06/16 01:34	1
Trichlorofluoromethane	**1.8**		0.50		ug/L			11/06/16 01:34	1
1,1-Dichloroethene	ND		0.10		ug/L			11/06/16 01:34	1
Methyl iodide	ND		0.50		ug/L			11/06/16 01:34	1
Carbon disulfide	ND		0.20		ug/L			11/06/16 01:34	1
Acetone	ND		2.0		ug/L			11/06/16 01:34	1
Methylene Chloride	**0.68**		0.50		ug/L			11/06/16 01:34	1
Acrylonitrile	ND		5.0		ug/L			11/06/16 01:34	1
Vinyl acetate	ND		1.0		ug/L			11/06/16 01:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/06/16 01:34	1
1,1-Dichloroethane	ND		0.20		ug/L			11/06/16 01:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/06/16 01:34	1
2-Butanone	ND		15		ug/L			11/06/16 01:34	1
Bromochloromethane	ND		0.20		ug/L			11/06/16 01:34	1
Chloroform	ND		0.20		ug/L			11/06/16 01:34	1
1,1,1-Trichloroethane	**0.38**		0.20		ug/L			11/06/16 01:34	1
Carbon tetrachloride	ND		0.20		ug/L			11/06/16 01:34	1
Benzene	ND		0.20		ug/L			11/06/16 01:34	1
1,2-Dichloroethane	ND		0.20		ug/L			11/06/16 01:34	1
Trichloroethene	ND		0.20		ug/L			11/06/16 01:34	1
1,2-Dichloropropane	ND		0.20		ug/L			11/06/16 01:34	1
Dibromomethane	ND		0.20		ug/L			11/06/16 01:34	1
Bromodichloromethane	ND		0.20		ug/L			11/06/16 01:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/06/16 01:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/06/16 01:34	1
Toluene	ND		0.40		ug/L			11/06/16 01:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/06/16 01:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/06/16 01:34	1
Tetrachloroethene	ND		0.50		ug/L			11/06/16 01:34	1
2-Hexanone	ND		2.0		ug/L			11/06/16 01:34	1
Dibromochloromethane	ND		0.20		ug/L			11/06/16 01:34	1
1,2-Dibromoethane	ND		0.10		ug/L			11/06/16 01:34	1
Chlorobenzene	ND		0.20		ug/L			11/06/16 01:34	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 01:34	1
Ethylbenzene	ND		0.20		ug/L			11/06/16 01:34	1
m,p-Xylene	ND		0.50		ug/L			11/06/16 01:34	1
o-Xylene	ND		0.50		ug/L			11/06/16 01:34	1
Styrene	ND		0.50		ug/L			11/06/16 01:34	1
Bromoform	ND		0.50		ug/L			11/06/16 01:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/06/16 01:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/06/16 01:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/06/16 01:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/06/16 01:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/06/16 01:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/06/16 01:34	1

Client Sample ID: 1016-22

Date Collected: 10/28/16 15:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-13

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/06/16 01:34*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*11/06/16 01:34*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/06/16 01:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/06/16 01:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/06/16 01:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**210**		1.1		mg/L		11/11/16 11:29	11/15/16 18:53	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 18:53	1
Magnesium	**110**		1.1		mg/L		11/11/16 11:29	11/15/16 18:53	1
Manganese	**0.063**		0.020		mg/L		11/11/16 11:29	11/15/16 18:53	1
Potassium	**9.6**		3.3		mg/L		11/11/16 11:29	11/15/16 18:53	1
Sodium	**42**		2.0		mg/L		11/11/16 11:29	11/15/16 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Arsenic	**0.0031**		0.0010		mg/L		11/11/16 12:53	11/14/16 17:53	1
Barium	**0.053**		0.0012		mg/L		11/11/16 12:53	11/14/16 17:53	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Chromium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 17:53	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Nickel	**0.0076**		0.0030		mg/L		11/11/16 12:53	11/14/16 17:53	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:53	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 17:53	1
Vanadium	**0.0074**		0.0040		mg/L		11/11/16 12:53	11/14/16 17:53	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.3**		0.20		mg/L			11/09/16 11:24	1
Chloride	**27**		0.90		mg/L			11/09/16 11:24	1
Sulfate	**66**		1.2		mg/L			11/09/16 11:24	1
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1
Nitrate Nitrite as N	**4.3**		0.25		mg/L			11/08/16 16:19	5
Total Organic Carbon	**2.9**		1.0		mg/L			11/07/16 13:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**860**		5.0		mg/L			11/09/16 12:39	1
Bicarbonate Alkalinity as CaCO3	**860**		5.0		mg/L			11/09/16 12:39	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/09/16 12:39	1
Total Dissolved Solids	**1000**		10		mg/L			11/03/16 13:10	1
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-231763/5
Matrix: Water
Analysis Batch: 231763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			11/05/16 16:10	1
Bromomethane	ND		1.0		ug/L			11/05/16 16:10	1
Chloroethane	ND		0.50		ug/L			11/05/16 16:10	1
Trichlorofluoromethane	ND		0.50		ug/L			11/05/16 16:10	1
1,1-Dichloroethene	ND		0.10		ug/L			11/05/16 16:10	1
Methyl iodide	ND		0.50		ug/L			11/05/16 16:10	1
Carbon disulfide	ND		0.20		ug/L			11/05/16 16:10	1
Acetone	ND		2.0		ug/L			11/05/16 16:10	1
Methylene Chloride	ND		0.50		ug/L			11/05/16 16:10	1
Acrylonitrile	ND		5.0		ug/L			11/05/16 16:10	1
Vinyl acetate	ND		1.0		ug/L			11/05/16 16:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 16:10	1
1,1-Dichloroethane	ND		0.20		ug/L			11/05/16 16:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/05/16 16:10	1
2-Butanone	ND		15		ug/L			11/05/16 16:10	1
Bromochloromethane	ND		0.20		ug/L			11/05/16 16:10	1
Chloroform	ND		0.20		ug/L			11/05/16 16:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/05/16 16:10	1
Carbon tetrachloride	ND		0.20		ug/L			11/05/16 16:10	1
Benzene	ND		0.20		ug/L			11/05/16 16:10	1
1,2-Dichloroethane	ND		0.20		ug/L			11/05/16 16:10	1
Trichloroethene	ND		0.20		ug/L			11/05/16 16:10	1
1,2-Dichloropropane	ND		0.20		ug/L			11/05/16 16:10	1
Dibromomethane	ND		0.20		ug/L			11/05/16 16:10	1
Bromodichloromethane	ND		0.20		ug/L			11/05/16 16:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/05/16 16:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/05/16 16:10	1
Toluene	ND		0.40		ug/L			11/05/16 16:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/05/16 16:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/05/16 16:10	1
Tetrachloroethene	ND		0.50		ug/L			11/05/16 16:10	1
2-Hexanone	ND		2.0		ug/L			11/05/16 16:10	1
Dibromochloromethane	ND		0.20		ug/L			11/05/16 16:10	1
1,2-Dibromoethane	ND		0.10		ug/L			11/05/16 16:10	1
Chlorobenzene	ND		0.20		ug/L			11/05/16 16:10	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 16:10	1
Ethylbenzene	ND		0.20		ug/L			11/05/16 16:10	1
m,p-Xylene	ND		0.50		ug/L			11/05/16 16:10	1
o-Xylene	ND		0.50		ug/L			11/05/16 16:10	1
Styrene	ND		0.50		ug/L			11/05/16 16:10	1
Bromoform	ND		0.50		ug/L			11/05/16 16:10	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/05/16 16:10	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/05/16 16:10	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/05/16 16:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/05/16 16:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/05/16 16:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/05/16 16:10	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-231763/5
Matrix: Water
Analysis Batch: 231763

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		11/05/16 16:10	1
Trifluorotoluene (Surr)	101		74 - 118		11/05/16 16:10	1
Dibromofluoromethane (Surr)	100		42 - 132		11/05/16 16:10	1
4-Bromofluorobenzene (Surr)	100		81 - 120		11/05/16 16:10	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		11/05/16 16:10	1

Lab Sample ID: LCS 580-231763/6
Matrix: Water
Analysis Batch: 231763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.34		ug/L		107	40 - 150
Bromomethane	5.00	4.71		ug/L		94	61 - 135
Chloroethane	5.00	5.77		ug/L		115	58 - 130
Trichlorofluoromethane	5.00	5.12		ug/L		102	60 - 150
1,1-Dichloroethene	5.04	5.09		ug/L		101	64 - 125
Methyl iodide	5.02	5.29		ug/L		105	47 - 145
Carbon disulfide	5.02	5.29		ug/L		105	65 - 128
Acetone	25.0	22.2		ug/L		89	20 - 138
Methylene Chloride	5.02	5.10		ug/L		102	58 - 134
Acrylonitrile	50.0	51.2		ug/L		102	55 - 134
Vinyl acetate	12.5	12.8		ug/L		102	30 - 150
trans-1,2-Dichloroethene	5.01	5.13		ug/L		102	69 - 124
1,1-Dichloroethane	5.00	5.40		ug/L		108	68 - 135
cis-1,2-Dichloroethene	5.01	5.26		ug/L		105	73 - 130
2-Butanone	25.0	23.5		ug/L		94	30 - 150
Bromochloromethane	5.01	5.10		ug/L		102	71 - 131
Chloroform	5.00	5.15		ug/L		103	71 - 130
1,1,1-Trichloroethane	5.02	5.23		ug/L		104	56 - 150
Carbon tetrachloride	5.01	5.11		ug/L		102	54 - 150
Benzene	5.02	5.22		ug/L		104	73 - 120
1,2-Dichloroethane	5.00	5.12		ug/L		102	63 - 150
Trichloroethene	5.01	5.10		ug/L		102	72 - 123
1,2-Dichloropropane	5.00	4.97		ug/L		99	72 - 120
Dibromomethane	5.02	5.04		ug/L		100	65 - 137
Bromodichloromethane	5.02	5.05		ug/L		101	62 - 150
cis-1,3-Dichloropropene	5.01	4.95		ug/L		99	54 - 150
4-Methyl-2-pentanone	25.0	24.8		ug/L		99	36 - 150
Toluene	5.00	5.25		ug/L		105	70 - 126
trans-1,3-Dichloropropene	5.00	4.76		ug/L		95	40 - 150
1,1,2-Trichloroethane	5.02	4.93		ug/L		98	62 - 137
Tetrachloroethene	5.01	5.10		ug/L		102	67 - 123
2-Hexanone	25.0	24.4		ug/L		98	25 - 150
Dibromochloromethane	5.01	5.07		ug/L		101	46 - 150
1,2-Dibromoethane	5.01	4.86		ug/L		97	56 - 146
Chlorobenzene	5.02	5.02		ug/L		100	74 - 114
1,1,1,2-Tetrachloroethane	5.02	5.31		ug/L		106	68 - 139
Ethylbenzene	5.02	5.25		ug/L		105	74 - 125

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-231763/6
Matrix: Water
Analysis Batch: 231763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	5.01	5.16		ug/L		103	73 - 130
o-Xylene	5.01	5.34		ug/L		107	80 - 139
Styrene	5.01	5.05		ug/L		101	68 - 136
Bromoform	5.02	4.84		ug/L		96	51 - 137
1,1,2,2-Tetrachloroethane	5.01	4.93		ug/L		99	60 - 134
1,2,3-Trichloropropane	5.01	5.03		ug/L		100	45 - 150
trans-1,4-Dichloro-2-butene	5.00	4.23		ug/L		85	20 - 150
1,4-Dichlorobenzene	5.01	5.14		ug/L		102	77 - 120
1,2-Dichlorobenzene	5.00	5.21		ug/L		104	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	5.26		ug/L		105	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*75 - 125*
Trifluorotoluene (Surr)	*101*		*74 - 118*
Dibromofluoromethane (Surr)	*103*		*42 - 132*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Lab Sample ID: LCSD 580-231763/7
Matrix: Water
Analysis Batch: 231763

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
Chloromethane	5.00	5.56		ug/L		111	40 - 150	4	31
Bromomethane	5.00	5.28		ug/L		106	61 - 135	11	31
Chloroethane	5.00	5.78		ug/L		116	58 - 130	0	35
Trichlorofluoromethane	5.00	5.24		ug/L		105	60 - 150	2	31
1,1-Dichloroethene	5.04	5.15		ug/L		102	64 - 125	1	28
Methyl iodide	5.02	5.35		ug/L		106	47 - 145	1	35
Carbon disulfide	5.02	5.32		ug/L		106	65 - 128	1	32
Acetone	25.0	22.7		ug/L		91	20 - 138	2	35
Methylene Chloride	5.02	5.24		ug/L		104	58 - 134	3	29
Acrylonitrile	50.0	49.9		ug/L		100	55 - 134	3	35
Vinyl acetate	12.5	13.0		ug/L		104	30 - 150	2	35
trans-1,2-Dichloroethene	5.01	5.18		ug/L		103	69 - 124	1	27
1,1-Dichloroethane	5.00	5.36		ug/L		107	68 - 135	1	27
cis-1,2-Dichloroethene	5.01	5.33		ug/L		106	73 - 130	1	20
2-Butanone	25.0	23.4		ug/L		94	30 - 150	0	35
Bromochloromethane	5.01	5.36		ug/L		107	71 - 131	5	20
Chloroform	5.00	5.22		ug/L		104	71 - 130	1	20
1,1,1-Trichloroethane	5.02	5.25		ug/L		105	56 - 150	0	29
Carbon tetrachloride	5.01	5.20		ug/L		104	54 - 150	2	30
Benzene	5.02	5.34		ug/L		106	73 - 120	2	20
1,2-Dichloroethane	5.00	5.32		ug/L		106	63 - 150	4	29
Trichloroethene	5.01	5.10		ug/L		102	72 - 123	0	20
1,2-Dichloropropane	5.00	5.10		ug/L		102	72 - 120	3	20
Dibromomethane	5.02	5.22		ug/L		104	65 - 137	4	20
Bromodichloromethane	5.02	5.11		ug/L		102	62 - 150	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-231763/7
Matrix: Water
Analysis Batch: 231763

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
cis-1,3-Dichloropropene	5.01	5.15		ug/L		103	54 - 150	4	28
4-Methyl-2-pentanone	25.0	25.5		ug/L		102	36 - 150	3	34
Toluene	5.00	5.37		ug/L		107	70 - 126	2	20
trans-1,3-Dichloropropene	5.00	4.90		ug/L		98	40 - 150	3	30
1,1,2-Trichloroethane	5.02	5.13		ug/L		102	62 - 137	4	30
Tetrachloroethene	5.01	5.20		ug/L		104	67 - 123	2	20
2-Hexanone	25.0	24.4		ug/L		98	25 - 150	0	28
Dibromochloromethane	5.01	5.13		ug/L		102	46 - 150	1	20
1,2-Dibromoethane	5.01	4.84		ug/L		97	56 - 146	0	20
Chlorobenzene	5.02	5.02		ug/L		100	74 - 114	0	12
1,1,1,2-Tetrachloroethane	5.02	5.42		ug/L		108	68 - 139	2	20
Ethylbenzene	5.02	5.27		ug/L		105	74 - 125	0	20
m,p-Xylene	5.01	5.27		ug/L		105	73 - 130	2	20
o-Xylene	5.01	5.37		ug/L		107	80 - 139	1	20
Styrene	5.01	5.05		ug/L		101	68 - 136	0	20
Bromoform	5.02	4.97		ug/L		99	51 - 137	3	20
1,1,2,2-Tetrachloroethane	5.01	5.05		ug/L		101	60 - 134	2	25
1,2,3-Trichloropropane	5.01	5.04		ug/L		101	45 - 150	0	20
trans-1,4-Dichloro-2-butene	5.00	4.12		ug/L		82	20 - 150	3	20
1,4-Dichlorobenzene	5.01	5.22		ug/L		104	77 - 120	2	11
1,2-Dichlorobenzene	5.00	5.32		ug/L		106	73 - 120	2	14
1,2-Dibromo-3-Chloropropane	5.01	5.21		ug/L		104	34 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*103*		*74 - 118*
Dibromofluoromethane (Surr)	*102*		*42 - 132*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-232195/19-A
Matrix: Water
Analysis Batch: 232504

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 232195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		11/11/16 11:29	11/15/16 17:30	1
Iron	ND		0.30		mg/L		11/11/16 11:29	11/15/16 17:30	1
Magnesium	ND		1.1		mg/L		11/11/16 11:29	11/15/16 17:30	1
Manganese	ND		0.020		mg/L		11/11/16 11:29	11/15/16 17:30	1
Potassium	ND		3.3		mg/L		11/11/16 11:29	11/15/16 17:30	1
Sodium	ND		2.0		mg/L		11/11/16 11:29	11/15/16 17:30	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-232195/20-A
Matrix: Water
Analysis Batch: 232504

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 232195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.6		mg/L		103	80 - 120
Iron	22.0	22.7		mg/L		103	80 - 120
Magnesium	20.0	20.9		mg/L		104	80 - 120
Manganese	1.00	1.01		mg/L		101	80 - 120
Potassium	20.0	20.4		mg/L		102	80 - 120
Sodium	20.0	20.5		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-232195/21-A
Matrix: Water
Analysis Batch: 232504

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 232195

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	21.0		mg/L		105	80 - 120	2	20
Iron	22.0	23.2		mg/L		105	80 - 120	2	20
Magnesium	20.0	21.3		mg/L		106	80 - 120	2	20
Manganese	1.00	1.04		mg/L		104	80 - 120	3	20
Potassium	20.0	20.9		mg/L		104	80 - 120	2	20
Sodium	20.0	21.0		mg/L		105	80 - 120	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-232211/20-A
Matrix: Water
Analysis Batch: 232379

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 232211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Arsenic	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 15:55	1
Barium	ND		0.0012		mg/L		11/11/16 12:53	11/14/16 15:55	1
Beryllium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Cadmium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Chromium	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Cobalt	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Copper	ND		0.0020		mg/L		11/11/16 12:53	11/14/16 15:55	1
Lead	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Nickel	ND		0.0030		mg/L		11/11/16 12:53	11/14/16 15:55	1
Selenium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 15:55	1
Silver	ND		0.00040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Thallium	ND		0.0010		mg/L		11/11/16 12:53	11/14/16 15:55	1
Vanadium	ND		0.0040		mg/L		11/11/16 12:53	11/14/16 15:55	1
Zinc	ND		0.0070		mg/L		11/11/16 12:53	11/14/16 15:55	1

Lab Sample ID: LCS 580-232211/21-A
Matrix: Water
Analysis Batch: 232379

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 232211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.95		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-232211/21-A
Matrix: Water
Analysis Batch: 232379

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 232211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	3.89		mg/L		97	80 - 120
Barium	4.00	4.11		mg/L		103	80 - 120
Beryllium	0.100	0.0943		mg/L		94	80 - 120
Cadmium	0.100	0.105		mg/L		105	80 - 120
Chromium	0.400	0.386		mg/L		97	80 - 120
Cobalt	1.00	0.962		mg/L		96	80 - 120
Copper	0.500	0.480		mg/L		96	80 - 120
Lead	1.00	1.02		mg/L		102	80 - 120
Nickel	1.00	0.959		mg/L		96	80 - 120
Selenium	4.00	3.99		mg/L		100	80 - 120
Silver	0.600	0.600		mg/L		100	80 - 120
Thallium	4.00	3.98		mg/L		100	80 - 120
Vanadium	1.00	0.977		mg/L		98	80 - 120
Zinc	4.00	3.77		mg/L		94	80 - 120

Lab Sample ID: LCSD 580-232211/22-A
Matrix: Water
Analysis Batch: 232379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 232211

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.93		mg/L		98	80 - 120	1	20
Arsenic	4.00	3.88		mg/L		97	80 - 120	0	20
Barium	4.00	4.06		mg/L		102	80 - 120	1	20
Beryllium	0.100	0.0962		mg/L		96	80 - 120	2	20
Cadmium	0.100	0.103		mg/L		103	80 - 120	2	20
Chromium	0.400	0.387		mg/L		97	80 - 120	0	20
Cobalt	1.00	0.949		mg/L		95	80 - 120	1	20
Copper	0.500	0.480		mg/L		96	80 - 120	0	20
Lead	1.00	1.01		mg/L		101	80 - 120	1	20
Nickel	1.00	0.952		mg/L		95	80 - 120	1	20
Selenium	4.00	4.01		mg/L		100	80 - 120	0	20
Silver	0.600	0.597		mg/L		100	80 - 120	1	20
Thallium	4.00	3.97		mg/L		99	80 - 120	0	20
Vanadium	1.00	0.968		mg/L		97	80 - 120	1	20
Zinc	4.00	3.80		mg/L		95	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-231925/3
Matrix: Water
Analysis Batch: 231925

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/08/16 12:22	1
Chloride	ND		0.90		mg/L			11/08/16 12:22	1
Sulfate	ND		1.2		mg/L			11/08/16 12:22	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-231925/4
Matrix: Water
Analysis Batch: 231925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.01		mg/L		100	90 - 110
Chloride	50.0	50.4		mg/L		101	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-231925/5
Matrix: Water
Analysis Batch: 231925

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
Fluoride	5.00	4.98		mg/L		100	90 - 110	1	15
Chloride	50.0	50.0		mg/L		100	90 - 110	1	15
Sulfate	50.0	49.4		mg/L		99	90 - 110	1	15

Lab Sample ID: 580-63794-9 MS
Matrix: Water
Analysis Batch: 231925

Client Sample ID: 1016-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	4.81		mg/L		96	90 - 110
Chloride	33	F1	50.0	87.1		mg/L		108	90 - 110
Sulfate	15		50.0	67.9		mg/L		107	90 - 110

Lab Sample ID: 580-63794-9 MSD
Matrix: Water
Analysis Batch: 231925

Client Sample ID: 1016-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.38		mg/L		108	90 - 110	11	15
Chloride	33	F1	50.0	89.5	F1	mg/L		112	90 - 110	3	15
Sulfate	15		50.0	69.5		mg/L		110	90 - 110	2	15

Lab Sample ID: MB 580-232093/3
Matrix: Water
Analysis Batch: 232093

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/09/16 09:48	1
Chloride	ND		0.90		mg/L			11/09/16 09:48	1
Sulfate	ND		1.2		mg/L			11/09/16 09:48	1

Lab Sample ID: LCS 580-232093/4
Matrix: Water
Analysis Batch: 232093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.02		mg/L		100	90 - 110
Chloride	50.0	50.3		mg/L		101	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-232093/5
Matrix: Water
Analysis Batch: 232093

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
Fluoride			5.00	5.03		mg/L		101	90 - 110	0	15
Chloride			50.0	50.2		mg/L		100	90 - 110	0	15
Sulfate			50.0	49.8		mg/L		100	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-231577/1-A
Matrix: Water
Analysis Batch: 231832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		11/04/16 09:44	11/05/16 09:18	1

Lab Sample ID: LCS 580-231577/2-A
Matrix: Water
Analysis Batch: 231832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231577

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	2.05		mg/L		103	90 - 110		

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: 580-63794-12 MS
Matrix: Water
Analysis Batch: 231903

Client Sample ID: 1016-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	8.7	F1	5.00	8.69	F1	mg/L		-0.6	90 - 110		

Lab Sample ID: 580-63794-12 MSD
Matrix: Water
Analysis Batch: 231903

Client Sample ID: 1016-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	8.7	F1	5.00	8.59	F1	mg/L		-3	90 - 110	1	20

Lab Sample ID: 580-63794-12 DU
Matrix: Water
Analysis Batch: 231903

Client Sample ID: 1016-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	8.7	F1	8.07		mg/L		8	20

Lab Sample ID: MB 580-231905/14
Matrix: Water
Analysis Batch: 231905

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 12:55	1

Lab Sample ID: MB 580-231905/48
Matrix: Water
Analysis Batch: 231905

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			11/08/16 13:34	1

Lab Sample ID: LCS 580-231905/15
Matrix: Water
Analysis Batch: 231905

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			1.00	0.966		mg/L		97	90 - 110		

Lab Sample ID: LCS 580-231905/49
Matrix: Water
Analysis Batch: 231905

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			1.00	0.966		mg/L		97	90 - 110		

Lab Sample ID: LCSD 580-231905/16
Matrix: Water
Analysis Batch: 231905

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			1.00	0.957		mg/L		96	90 - 110	1	20

Lab Sample ID: LCSD 580-231905/50
Matrix: Water
Analysis Batch: 231905

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			1.00	0.961		mg/L		96	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-231931/2
Matrix: Water
Analysis Batch: 231931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	93.3		mg/L		93	85 - 115		

Lab Sample ID: 580-63794-6 DU
Matrix: Water
Analysis Batch: 231931

Client Sample ID: 1016-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	210			204		mg/L				3	17
Bicarbonate Alkalinity as CaCO3	210			204		mg/L				3	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 580-231973/2
Matrix: Water
Analysis Batch: 231973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	97.6		mg/L		98	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-231476/1
Matrix: Water
Analysis Batch: 231476

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/03/16 13:10	1

Lab Sample ID: LCS 580-231476/2
Matrix: Water
Analysis Batch: 231476

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	1000	1000		mg/L		100	80 - 120

Lab Sample ID: 580-63794-13 DU
Matrix: Water
Analysis Batch: 231476

Client Sample ID: 1016-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1030		mg/L		0.7	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-231526/3-A
Matrix: Water
Analysis Batch: 231530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 231526

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		11/03/16 13:37	11/03/16 13:37	1

Lab Sample ID: LCS 580-231526/4-A
Matrix: Water
Analysis Batch: 231530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 231526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	81.7		mg/L		109	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-231874/3
Matrix: Water
Analysis Batch: 231874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/07/16 13:41	1

Lab Sample ID: LCS 580-231874/4
Matrix: Water
Analysis Batch: 231874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.15		mg/L		92	85 - 115

Lab Sample ID: 580-63794-1 MS
Matrix: Water
Analysis Batch: 231874

Client Sample ID: 1016-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.2		10.0	12.2		mg/L		100	85 - 115

Lab Sample ID: 580-63794-1 MSD
Matrix: Water
Analysis Batch: 231874

Client Sample ID: 1016-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.2		10.0	12.1		mg/L		99	85 - 115	0	20

Lab Sample ID: 580-63794-1 DU
Matrix: Water
Analysis Batch: 231874

Client Sample ID: 1016-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.2		2.20		mg/L		1	20

Lab Sample ID: MB 580-231875/3
Matrix: Water
Analysis Batch: 231875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/07/16 13:45	1

Lab Sample ID: LCS 580-231875/4
Matrix: Water
Analysis Batch: 231875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.15		mg/L		91	85 - 115

Lab Sample ID: 580-63794-13 MS
Matrix: Water
Analysis Batch: 231875

Client Sample ID: 1016-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.9		10.0	13.0		mg/L		100	85 - 115

QC Sample Results

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Lab Sample ID: 580-63794-13 MSD
Matrix: Water
Analysis Batch: 231875

Client Sample ID: 1016-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.9		10.0	12.1		mg/L		91	85 - 115	7	20

Lab Sample ID: 580-63794-13 DU
Matrix: Water
Analysis Batch: 231875

Client Sample ID: 1016-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	2.9			2.87		mg/L				2	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-25

Date Collected: 10/27/16 09:15
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 19:55	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:14	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 16:49	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 17:30	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:19	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231931	11/09/16 11:34	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-96

Date Collected: 10/27/16 10:32
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 20:23	TL1	TAL SEA

Client Sample ID: 1016-08

Date Collected: 10/27/16 11:46
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 20:51	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:17	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 16:54	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 17:46	RSB	TAL SEA
Total/NA	Analysis	300.0		10	231925	11/09/16 08:08	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:23	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231931	11/09/16 11:34	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-09

Date Collected: 10/27/16 13:15
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 21:19	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:20	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 16:58	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 18:01	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:24	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231931	11/09/16 11:34	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-97

Date Collected: 10/27/16 14:20
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 21:47	TL1	TAL SEA

Client Sample ID: 1016-05

Date Collected: 10/27/16 15:00
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 22:16	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:24	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:03	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 18:16	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:25	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231931	11/09/16 11:34	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-28

Lab Sample ID: 580-63794-7

Date Collected: 10/28/16 09:13

Matrix: Water

Date Received: 10/31/16 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 22:44	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:33	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:07	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 18:32	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:26	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231931	11/09/16 11:34	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-27

Lab Sample ID: 580-63794-8

Date Collected: 10/28/16 10:10

Matrix: Water

Date Received: 10/31/16 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 23:12	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:37	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:12	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 18:47	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:27	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231931	11/09/16 11:34	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-02

Lab Sample ID: 580-63794-9

Date Collected: 10/28/16 11:40

Matrix: Water

Date Received: 10/31/16 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/05/16 23:40	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA

Client Sample ID: 1016-02

Date Collected: 10/28/16 11:40
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	232504	11/15/16 18:40	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:16	FCW	TAL SEA
Total/NA	Analysis	300.0		1	231925	11/08/16 19:03	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		1	231905	11/08/16 13:29	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231973	11/09/16 12:39	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-19

Date Collected: 10/28/16 13:03
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/06/16 00:08	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:43	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:21	FCW	TAL SEA
Total/NA	Analysis	300.0		1	232093	11/09/16 10:38	RSB	TAL SEA
Total/NA	Analysis	300.0		10	232093	11/10/16 08:09	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		5	231903	11/08/16 16:12	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231973	11/09/16 12:39	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-31

Date Collected: 10/28/16 13:10
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/06/16 00:37	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:47	HJM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-31

Date Collected: 10/28/16 13:10
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:25	FCW	TAL SEA
Total/NA	Analysis	300.0		1	232093	11/09/16 10:53	RSB	TAL SEA
Total/NA	Analysis	300.0		10	232093	11/10/16 08:24	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		5	231903	11/08/16 16:13	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231973	11/09/16 12:39	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-23

Date Collected: 10/28/16 14:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/06/16 01:06	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:50	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	232093	11/09/16 11:08	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		10	231903	11/08/16 16:14	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231973	11/09/16 12:39	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231874	11/07/16 13:41	Z1T	TAL SEA

Client Sample ID: 1016-22

Date Collected: 10/28/16 15:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	231763	11/06/16 01:34	TL1	TAL SEA
Dissolved	Prep	3005A			232195	11/11/16 11:29	MKN	TAL SEA
Dissolved	Analysis	6010C		1	232504	11/15/16 18:53	HJM	TAL SEA
Total Recoverable	Prep	3005A			232211	11/11/16 12:53	MKN	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Client Sample ID: 1016-22

Date Collected: 10/28/16 15:35
Date Received: 10/31/16 11:45

Lab Sample ID: 580-63794-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	232379	11/14/16 17:53	FCW	TAL SEA
Total/NA	Analysis	300.0		1	232093	11/09/16 11:24	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			231577	11/04/16 09:44	EMM	TAL SEA
Total/NA	Analysis	350.1		1	231832	11/05/16 09:18	EMM	TAL SEA
Total/NA	Analysis	353.2		5	231903	11/08/16 16:19	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	231973	11/09/16 12:39	L1I	TAL SEA
Total/NA	Analysis	SM 2540C		1	231476	11/03/16 13:10	EMM	TAL SEA
Total/NA	Prep	SM 5220			231526	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5220D		1	231530	11/03/16 13:37	L1I	TAL SEA
Total/NA	Analysis	SM 5310B		1	231875	11/07/16 13:45	Z1T	TAL SEA

Laboratory References:

SC0053 = OnSite Environmental Inc, 14648 NE 95th Street, Redmond, WA 98052

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste LF

TestAmerica Job ID: 580-63794-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-63794-1	1016-25	Water	10/27/16 09:15	10/31/16 11:45
580-63794-2	1016-96	Water	10/27/16 10:32	10/31/16 11:45
580-63794-3	1016-08	Water	10/27/16 11:46	10/31/16 11:45
580-63794-4	1016-09	Water	10/27/16 13:15	10/31/16 11:45
580-63794-5	1016-97	Water	10/27/16 14:20	10/31/16 11:45
580-63794-6	1016-05	Water	10/27/16 15:00	10/31/16 11:45
580-63794-7	1016-28	Water	10/28/16 09:13	10/31/16 11:45
580-63794-8	1016-27	Water	10/28/16 10:10	10/31/16 11:45
580-63794-9	1016-02	Water	10/28/16 11:40	10/31/16 11:45
580-63794-10	1016-19	Water	10/28/16 13:03	10/31/16 11:45
580-63794-11	1016-31	Water	10/28/16 13:10	10/31/16 11:45
580-63794-12	1016-23	Water	10/28/16 14:35	10/31/16 11:45
580-63794-13	1016-22	Water	10/28/16 15:35	10/31/16 11:45

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 10, 2016

Cathy Gamble
Test America
5755 8th Street East
Tacoma, WA 98424

Re: Analytical Data for Project 580-63794-1
Laboratory Reference No. 1611-070

Dear Cathy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 4, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

Case Narrative

Samples were collected on October 27 and 28, 2016 and received by the laboratory on November 4, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-25**					
Laboratory ID:	11-070-01					
Vinyl Chloride	0.20	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*93*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-96**					
Laboratory ID:	11-070-02					
Vinyl Chloride	0.053	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*77-129*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-08**					
Laboratory ID:	11-070-03					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*92*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-09**					
Laboratory ID:	11-070-04					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-97**					
Laboratory ID:	11-070-05					
Vinyl Chloride	4.5	0.20	EPA 8260C	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-05**					
Laboratory ID:	11-070-06					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*98*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-28**					
Laboratory ID:	11-070-07					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*97*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-27**					
Laboratory ID:	11-070-08					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*77-129*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

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Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-02**					
Laboratory ID:	11-070-09					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*77-129*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*80-125*				

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Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-19**					
Laboratory ID:	11-070-10					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*96*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-31**					
Laboratory ID:	11-070-11					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*98*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-23**					
Laboratory ID:	11-070-12					
Vinyl Chloride	0.18	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*77-129*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*91*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**1016-22**					
Laboratory ID:	11-070-13					
Vinyl Chloride	20	0.20	EPA 8260C	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*92*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1107W1					
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	11-7-16	11-7-16	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*77-129*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*100*	*80-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 10, 2016
Samples Submitted: November 4, 2016
Laboratory Reference: 1611-070
Project: 580-63794-1

VINYL CHLORIDE EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1107W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**8.96**	**9.36**	10.0	10.0	90	94	63-127	4	17	
Benzene	**10.0**	**10.6**	10.0	10.0	100	106	76-121	6	12	
Trichloroethene	**8.01**	**8.41**	10.0	10.0	80	84	64-114	5	15	
Toluene	**9.86**	**10.4**	10.0	10.0	99	104	82-115	5	13	
Chlorobenzene	**9.87**	**10.6**	10.0	10.0	99	106	80-115	7	14	
Surrogate:										
Dibromofluoromethane					*100*	*99*	*77-129*			
Toluene-d8					*95*	*95*	*80-127*			
4-Bromofluorobenzene					*96*	*100*	*80-125*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

11-070

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/16/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-42005.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 1 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-63794-1
Address: 14648 NE 95th Street, ,	Due Date Requested: ~~11/10/2016~~ 11/14/16			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste LF	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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 - Client ID	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)	SUB (8260_LL (Vinyl Chloride only))/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	1016-25	10/27/16	09:15 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
2	1016-96	10/27/16	10:32 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
3	1016-08	10/27/16	11:46 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
4	1016-09	10/27/16	13:15 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
5	1016-97	10/27/16	14:20 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
6	1016-05	10/27/16	15:00 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
7	1016-28	10/28/16	09:13 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
8	1016-27	10/28/16	10:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
9	1016-02	10/28/16	11:40 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/4/16 1310	TASEA	[signature]	11/4/16 1310	OSE
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

11-070

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/16/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-42005.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 2 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-63794-1
Address: 14648 NE 95th Street, ,	Due Date Requested: ~~11/10/2016~~ 11/14/16			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste LF	Project #: 58009563			
Site:	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
F - MeOH	R - Na2S2O3
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 - Client ID	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)	SUB (8260_LL (Vinyl Chloride only))/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
10	1016-19	10/28/16	13:03 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
11	1016-31	10/28/16	13:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
12	1016-23	10/28/16	14:35 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
13	1016-22	10/28/16	15:35 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
14	TRIP BLANK	10/28/16	—		Water				7	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/4/16 1310	Company TASE/T	Received by:	Date/Time: 11/4/16 1310	Company OSG
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Vanderwarker	10/31/16	33511
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
2405 140th Ave NE Suite 107	425-766-2502		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam B.	Sarah Murphy (formerly)	
Project Name and Location (State)	**Billing Contact**		
Cowlitz Solid Waste LF			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	9260 B_LL	TDS	Cl, F, SO4	Nitrate Comb	Special Instructions/ Conditions of Receipt
1016-25	10/27/16	915		X			3	4	2	3			X	X	X	X	X	X	X	X	X	X	* Total Metals
1016-96		1032								3													bottle has
1016-08		1146					3	4	2	3			X	X	X	X	X	X		X	X	X	no preservative
1016-09		1315					3	4	2	3			X	X	X	X	X	X		X	X	X	for sample
1016-97		1420								3													1016-23.
1016-05		1500					3	4	2	3			X	X	X	X	X	X		X	X	X	Please preserve in
1016-28	10/28/16	413					3	4	2	3													lab. *
1016-27		1010					3	4	2	3													
1016-02		1140					3	4	2	3													
1016-19		1303					3	4	2	3													
1016-31		1310					3	4	2	3													
1016-23 *		1435					4	4	1	3													

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify):

	Date	Time
1. Relinquished By Sign/Print	10/31/16	1145 AM
1. Received By Sign/Print: Francisco Luna, Jr.	10/31/16	1145
2. Relinquished By Sign/Print		
2. Received By Sign/Print		
3. Relinquished By Sign/Print		
3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

580-63794 Chain of Custody

TAL-8274 580 (0218)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Vanchiarutti	10/31/16	33507
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2405 140th Ave NE Suite 107	425-766-2502		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Sarah Murphy	
Project Name and Location (State)	**Billing Contact**		
Campville Solid Waste LF	↑ formerly		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	3260 B_LL	TDS	Cl, F, SO4	Nitrate Combo	Special Instructions/ Conditions of Receipt
1016-22 *	10/28/16	1538		X			5	4		3			X	X	X	X	X	X	X	X	X	X	* Total + Dissolved Metals bottles for Sample 1016-22 do not have preservative. Please preserve in lab. *
Trip blank	–	–		X						9													Do not run analysis on trip blank.

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: _____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print	10/31/16	1145	1. Received By Sign/Print Francisco Luna, J.	10/31/16	1145
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-63794-1

Login Number: 63794
List Number: 1
Creator: Torres, Terri L

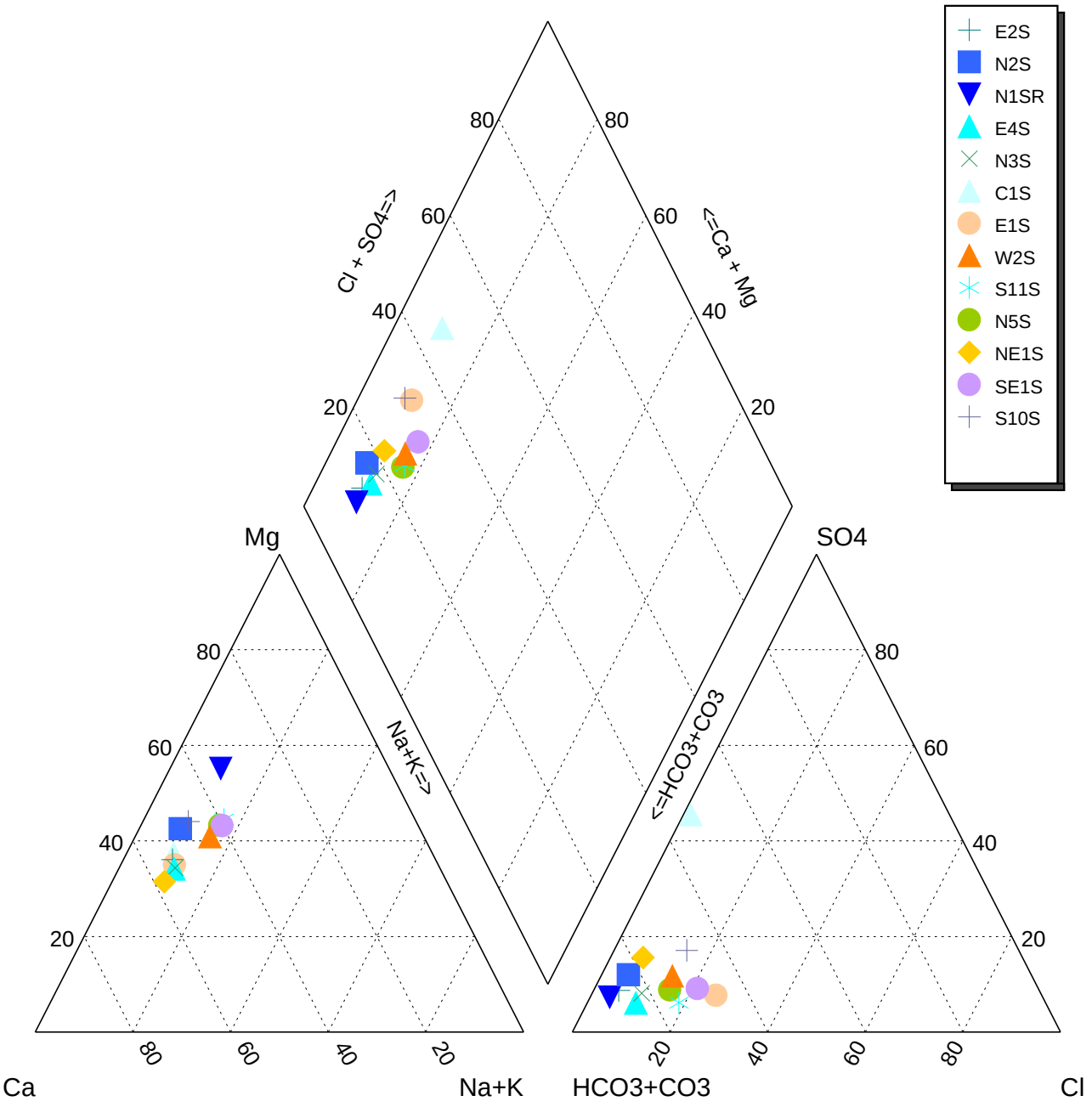
List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

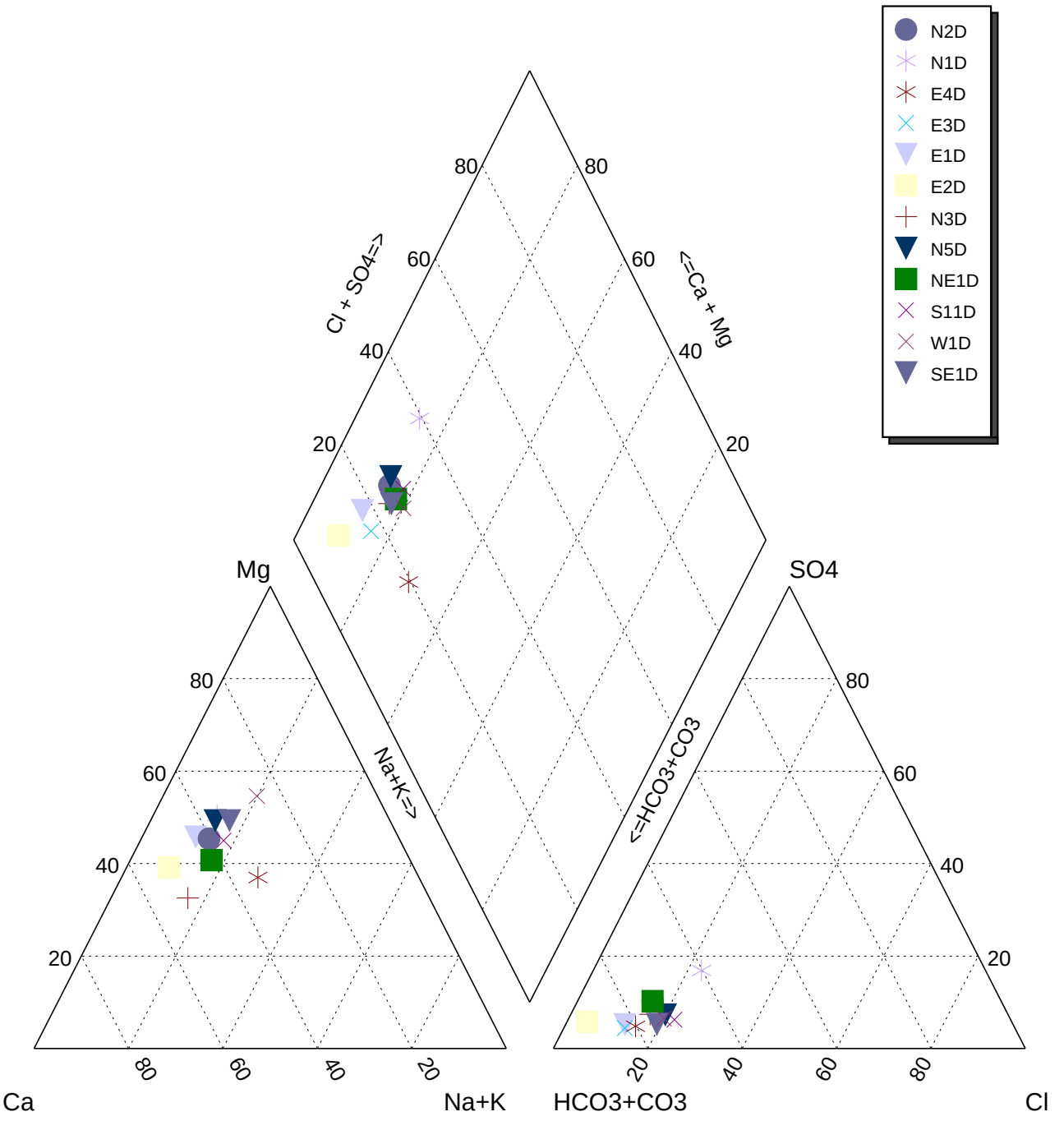
2016 GROUNDWATER

GEOCHEMICAL EVALUATION



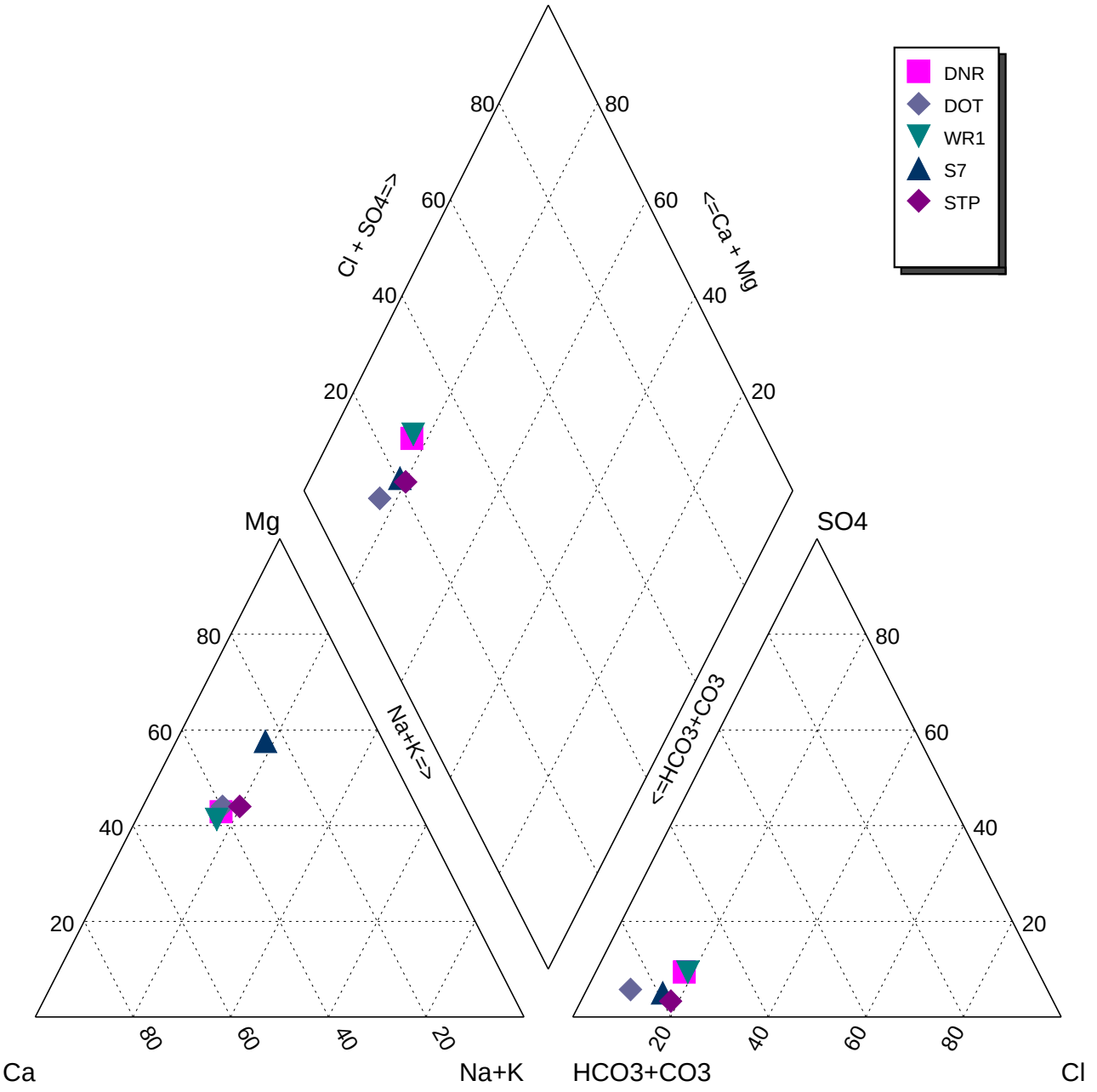
DESCRIPTION: Q1 Piper Plots - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



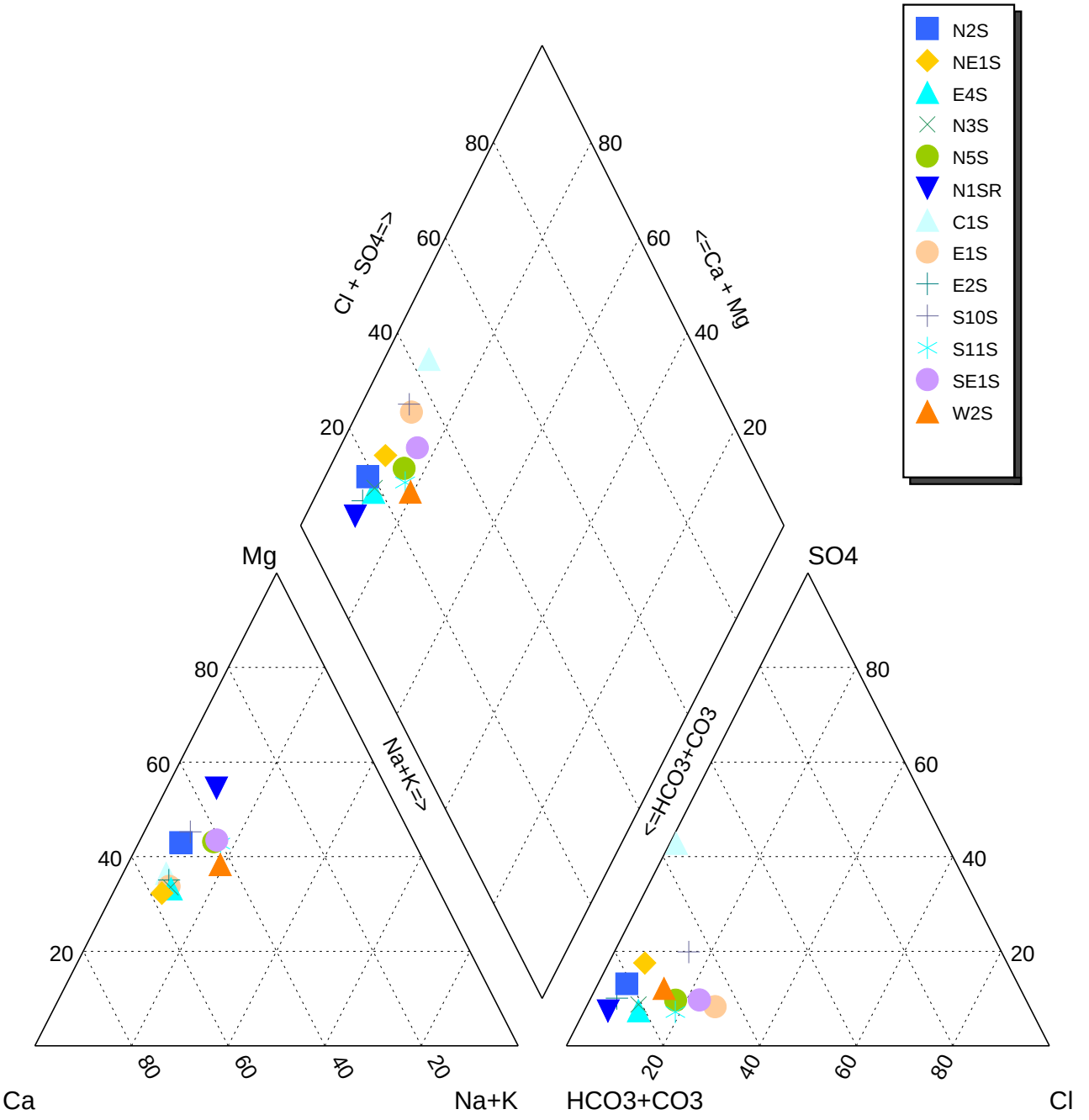
DESCRIPTION: Q1 Piper Plots - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



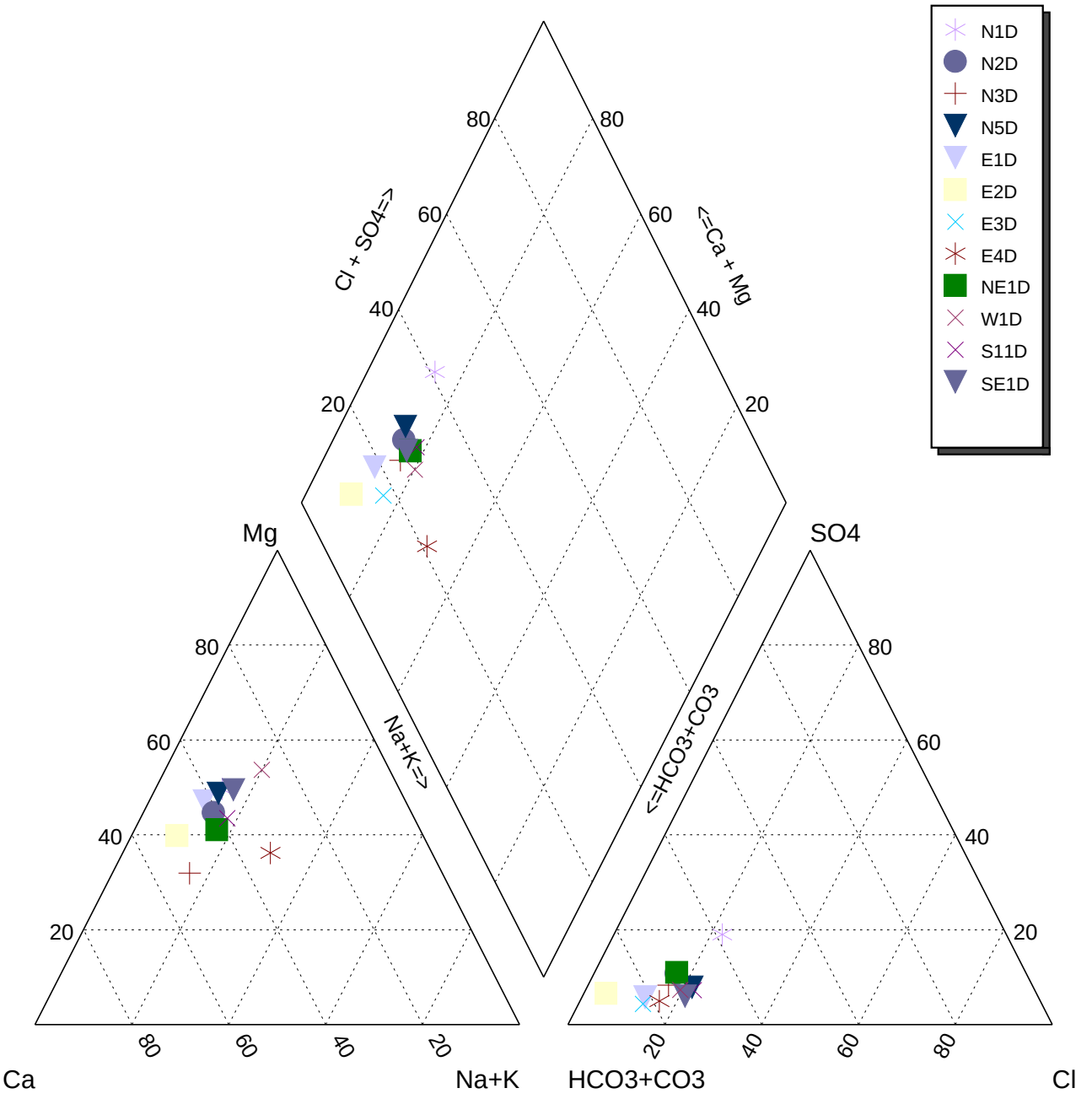
DESCRIPTION: Q1 Piper Plot - Pumping Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



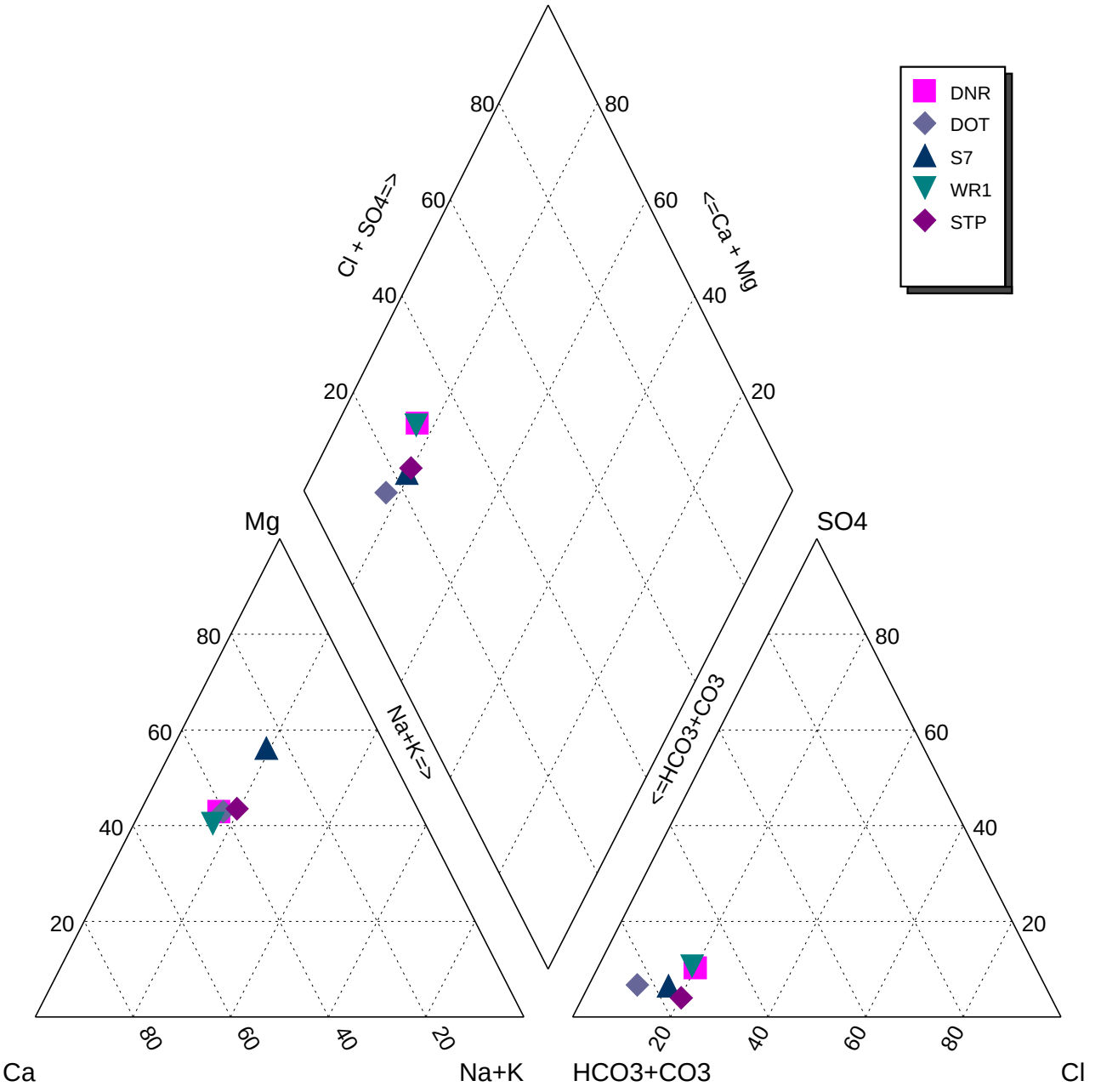
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	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



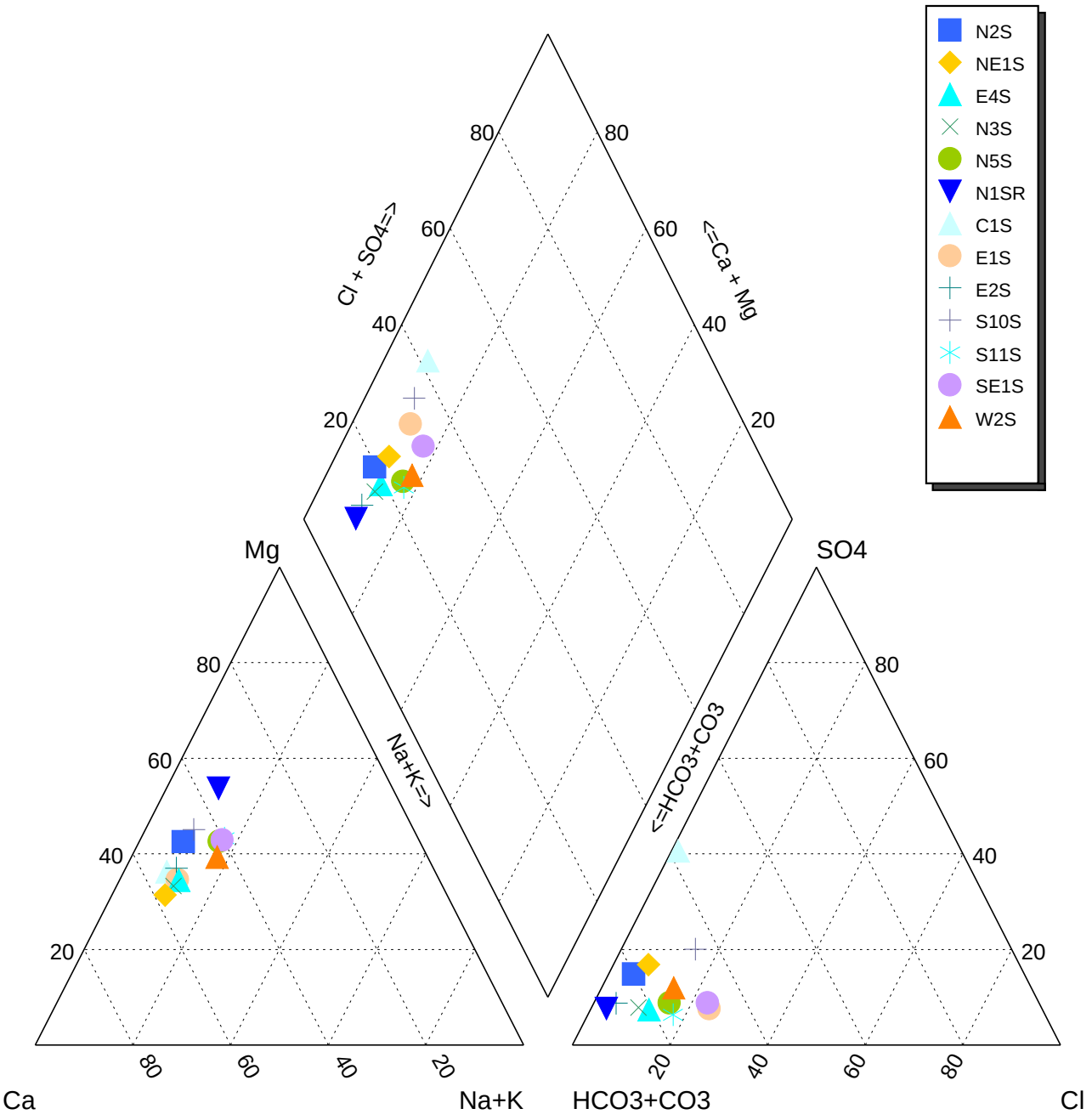
DESCRIPTION: Q2 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



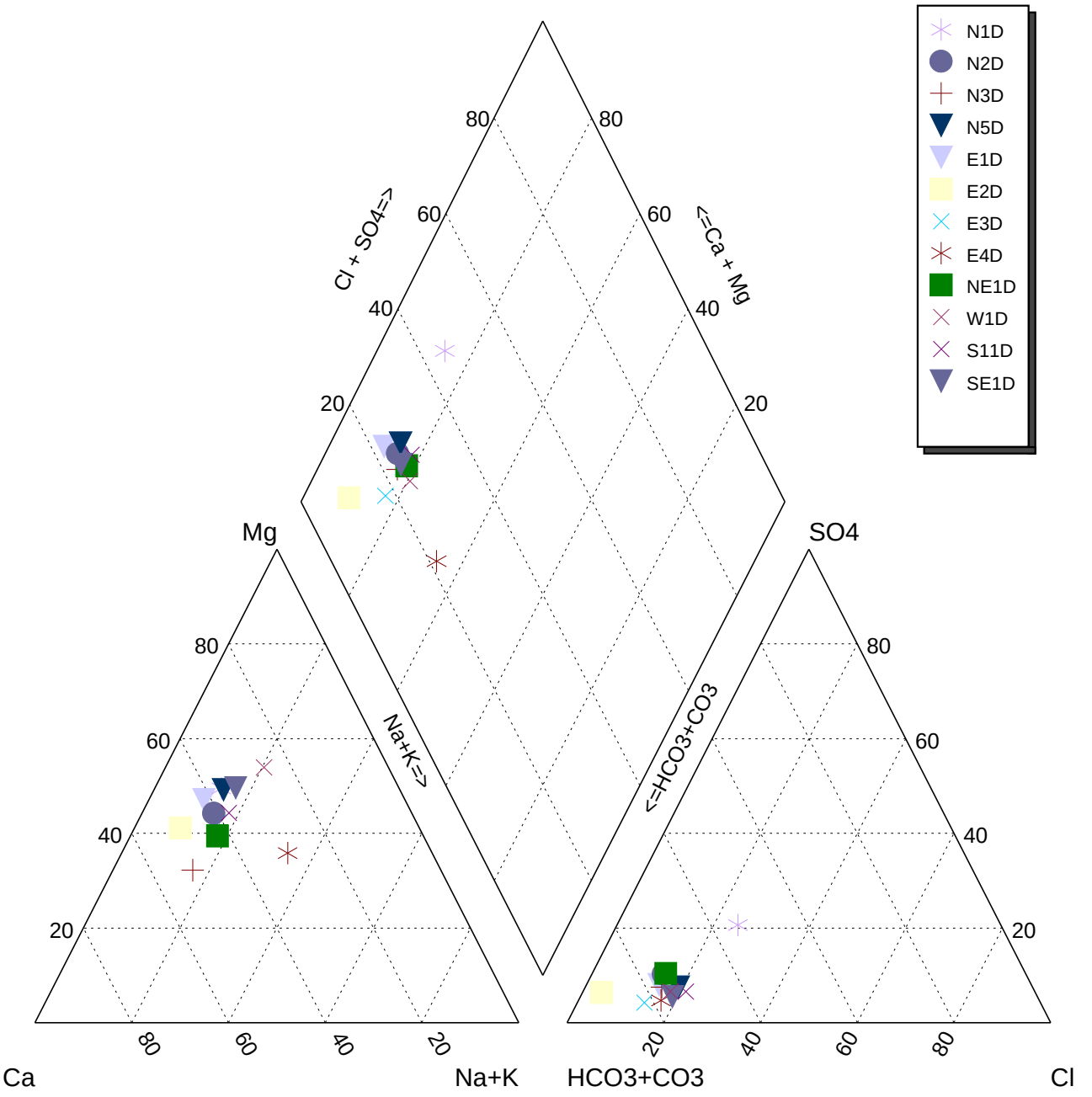
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	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



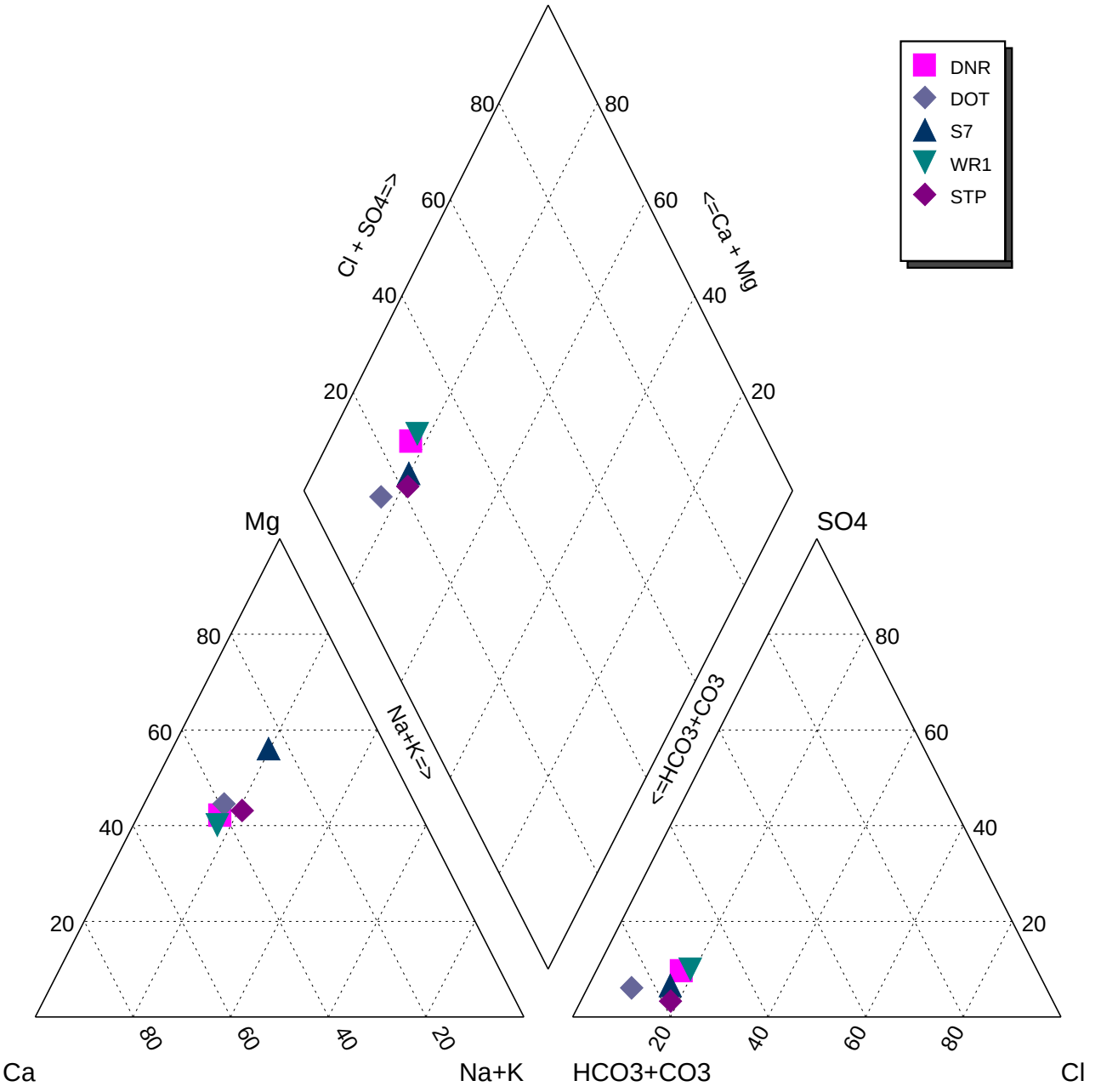
DESCRIPTION: Q3 Piper Plot - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



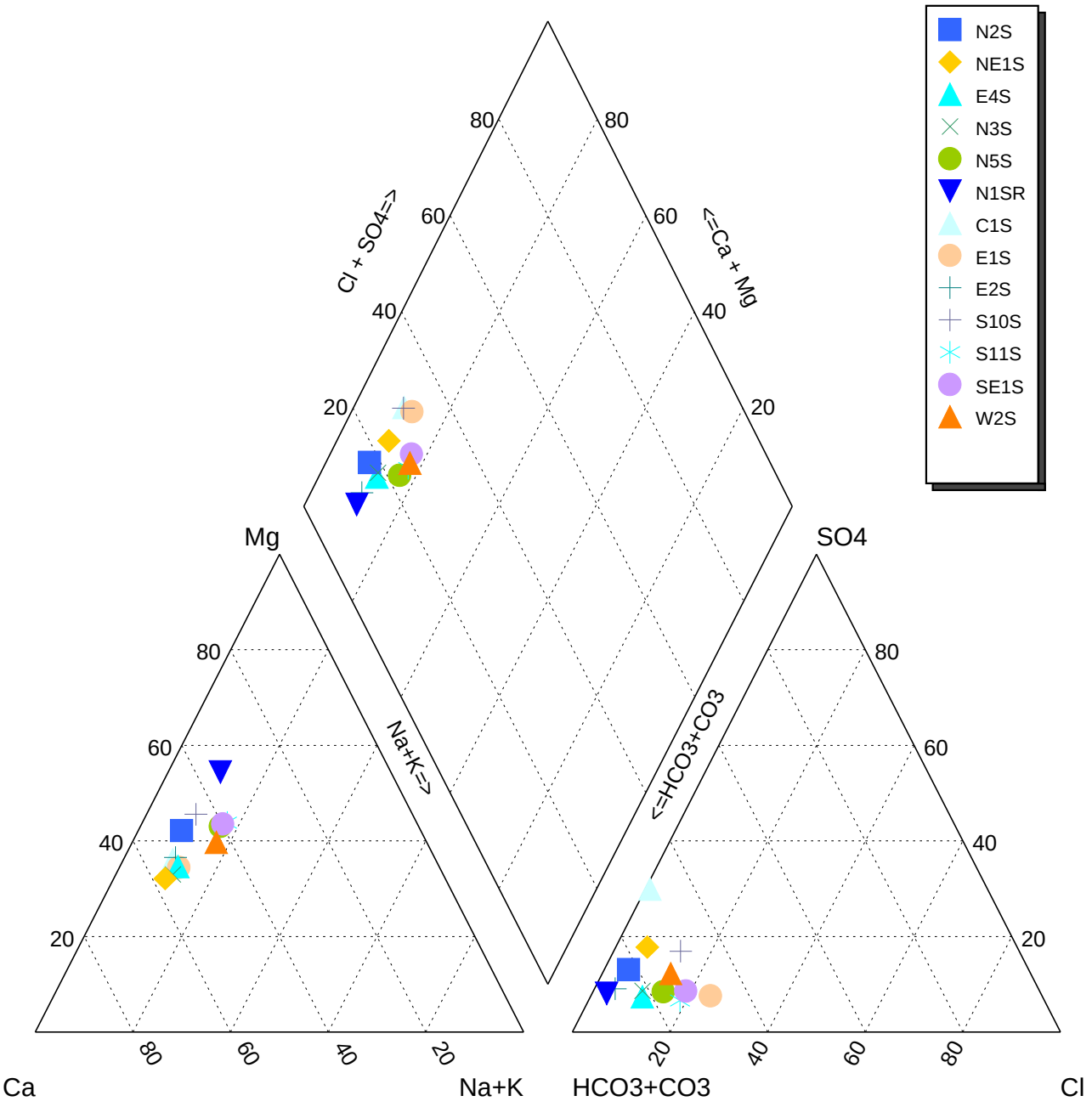
DESCRIPTION: Q3 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



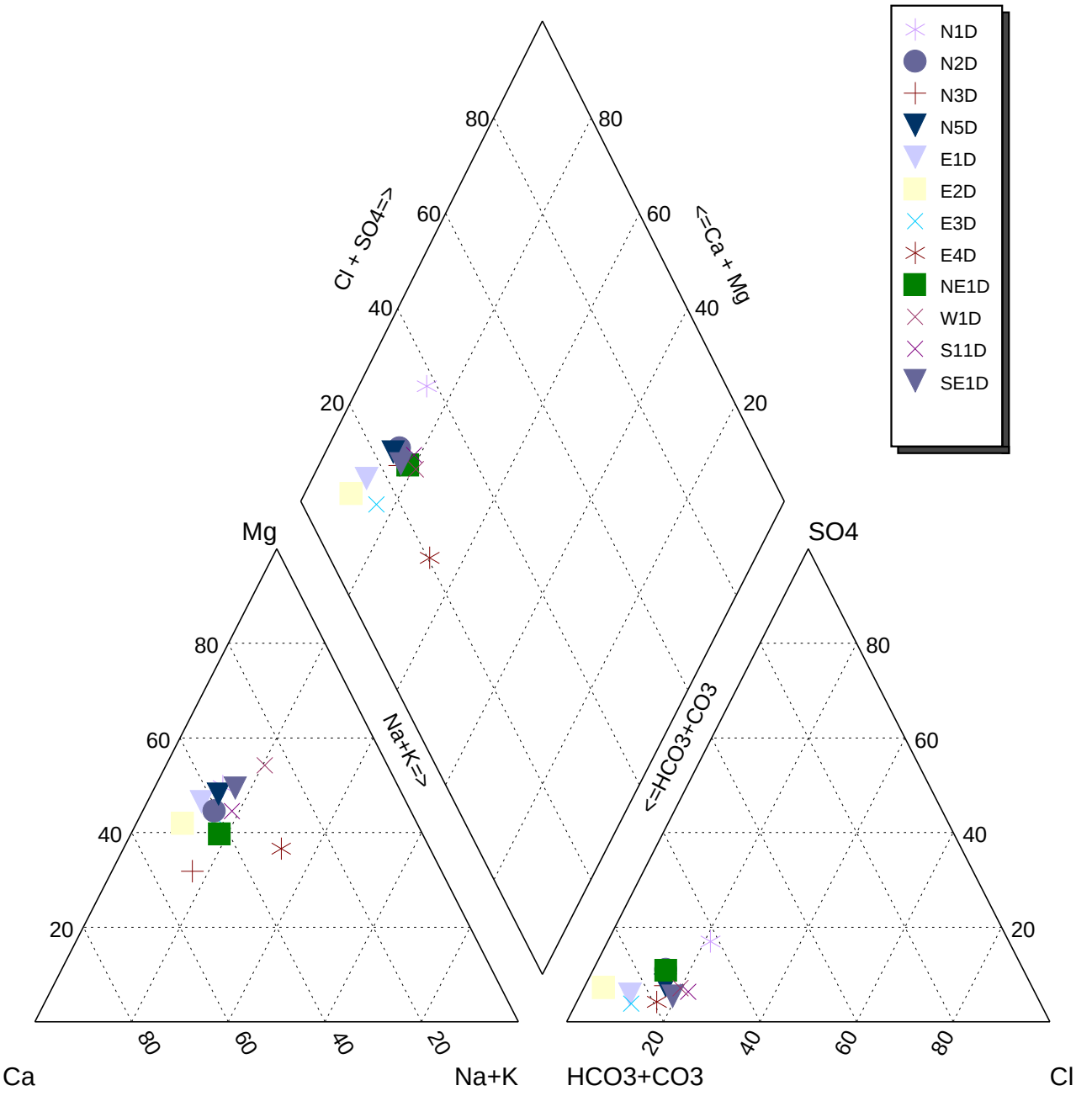
DESCRIPTION: Q3 Piper Plot - Pumping Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



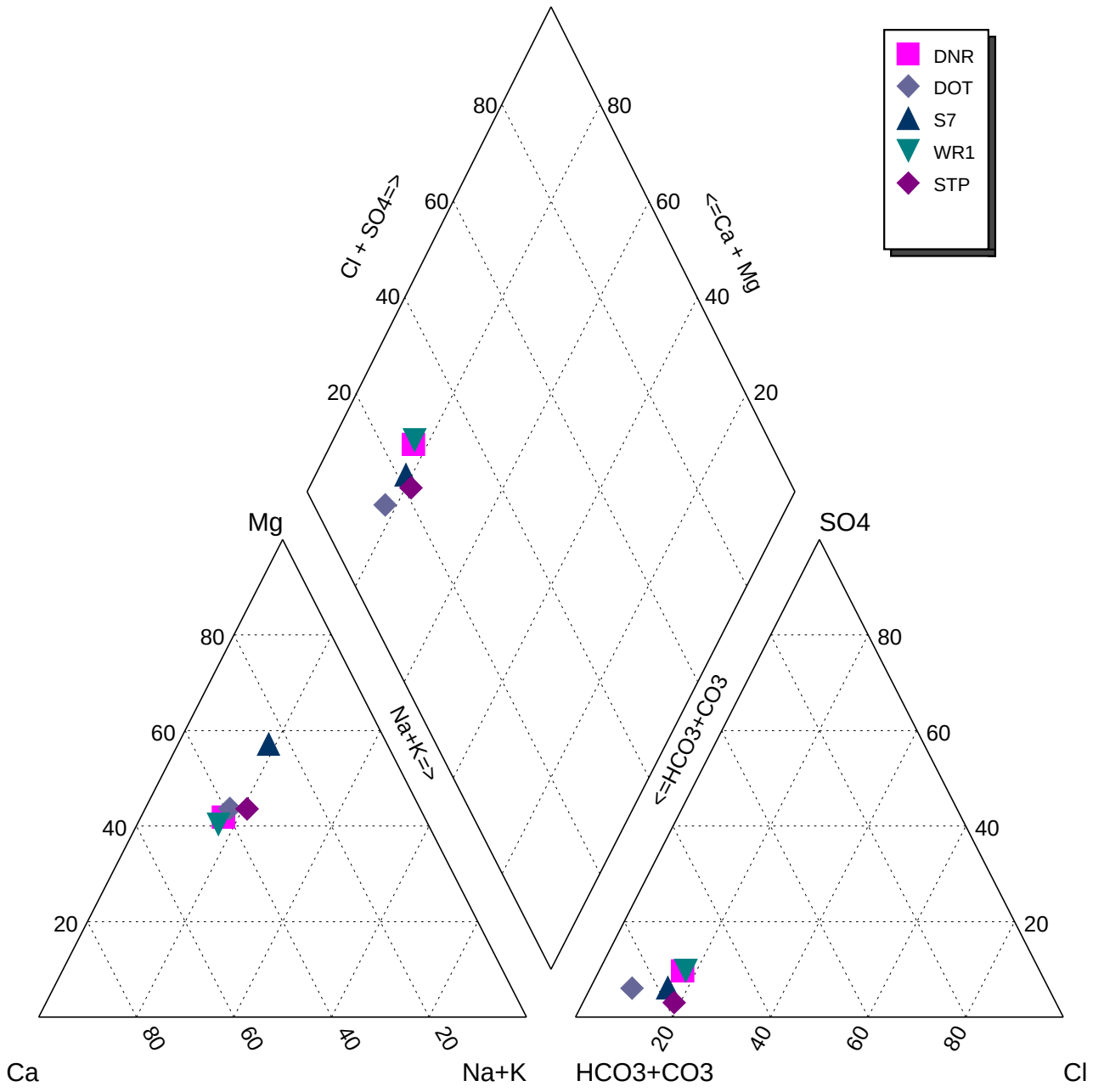
DESCRIPTION: Q4 Piper Plot - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



DESCRIPTION: Q4 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016



DESCRIPTION: Q4 Piper Plot - Pumping Wells		
	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.09
	CLIENT: Island County Public Works	DATE: December 2016

Cation/Anion Balance

Location	C1S
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.40	0.164	
Ca	0.04990	180.00	8.98	
Mg	0.08229	77.00	6.34	
		Sum of Cations	16.96	meq/L
Cl	0.02821	8.20	0.23	
SO4	0.02082	340.00	7.08	
NO3	0.01613	6.40	0.10	
HCO3	0.01639	504.00	8.26	
		Sum of Anions	15.68	meq/L
Balance (% difference) *			3.93	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.30	0.161	
Ca	0.04990	140.00	6.99	
Mg	0.08229	55.00	4.53	
		Sum of Cations	12.93	meq/L
Cl	0.02821	96.00	2.71	
SO4	0.02082	39.00	0.81	
NO3	0.01613	12.00	0.19	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	10.8	meq/L
Balance (% difference) *			9.02	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.38	0.0138	
K	0.02258	7.60	0.194	
Ca	0.04990	170.00	8.48	
Mg	0.08229	69.00	5.68	
		Sum of Cations	15.76	meq/L
Cl	0.02821	26.00	0.73	
SO4	0.02082	59.00	1.23	
NO3	0.01613	8.40	0.14	
HCO3	0.01639	744.00	12.19	
		Sum of Anions	14.3	meq/L
Balance (% difference) *			4.89	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.60	0.169	
Ca	0.04990	150.00	7.49	
Mg	0.08229	57.00	4.69	
		Sum of Cations	13.74	meq/L
Cl	0.02821	44.00	1.24	
SO4	0.02082	36.00	0.75	
NO3	0.01613	0.62	0.01	
HCO3	0.01639	636.00	10.42	
		Sum of Anions	12.42	meq/L
Balance (% difference) *			5.02	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	12.00	0.52	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	<0.15	<0.004	
Ca	0.04990	35.00	1.75	
Mg	0.08229	34.00	2.80	
		Sum of Cations	5.07	meq/L
Cl	0.02821	5.60	0.16	
SO4	0.02082	14.00	0.29	
NO3	0.01613	3.10	0.05	
HCO3	0.01639	216.00	3.54	
		Sum of Anions	4.04	meq/L
Balance (% difference) *			11.31	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	2/4/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	9.40	0.240	
Ca	0.04990	190.00	9.48	
Mg	0.08229	100.00	8.23	
		Sum of Cations	19.34	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	100.00	2.08	
NO3	0.01613	5.40	0.09	
HCO3	0.01639	876.00	14.36	
		Sum of Anions	17.5	meq/L
Balance (% difference) *			5.04	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.10	0.156	
Ca	0.04990	130.00	6.49	
Mg	0.08229	50.00	4.11	
		Sum of Cations	11.98	meq/L
Cl	0.02821	39.00	1.10	
SO4	0.02082	42.00	0.88	
NO3	0.01613	5.50	0.09	
HCO3	0.01639	540.00	8.85	
		Sum of Anions	10.91	meq/L
Balance (% difference) *			4.64	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	2/4/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.40	0.164	
Ca	0.04990	65.00	3.24	
Mg	0.08229	42.00	3.46	
		Sum of Cations	8.0	meq/L
Cl	0.02821	43.00	1.21	
SO4	0.02082	33.00	0.69	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	7.8	meq/L
Balance (% difference) *			1.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	18.00	0.78	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	5.50	0.141	
Ca	0.04990	100.00	4.99	
Mg	0.08229	33.00	2.72	
		Sum of Cations	8.63	meq/L
Cl	0.02821	18.00	0.51	
SO4	0.02082	57.00	1.19	
NO3	0.01613	4.70	0.08	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	7.67	meq/L
Balance (% difference) *			5.88	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.081	0.0029	
K	0.02258	7.70	0.197	
Ca	0.04990	150.00	7.49	
Mg	0.08229	86.00	7.08	
		Sum of Cations	16.07	meq/L
Cl	0.02821	61.00	1.72	
SO4	0.02082	95.00	1.98	
NO3	0.01613	42.00	0.68	
HCO3	0.01639	480.00	7.87	
		Sum of Anions	12.24	meq/L
Balance (% difference) *			13.50	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	6.10	0.156	
Ca	0.04990	74.00	3.69	
Mg	0.08229	51.00	4.20	
		Sum of Cations	9.44	meq/L
Cl	0.02821	61.00	1.72	
SO4	0.02082	27.00	0.56	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.17	meq/L
Balance (% difference) *			1.49	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	5.60	0.143	
Ca	0.04990	72.00	3.59	
Mg	0.08229	47.00	3.87	
		Sum of Cations	8.95	meq/L
Cl	0.02821	63.00	1.78	
SO4	0.02082	37.00	0.77	
NO3	0.01613	1.10	0.02	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	8.47	meq/L
Balance (% difference) *			2.79	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	4.50	0.115	
Ca	0.04990	99.00	4.94	
Mg	0.08229	56.00	4.61	
		Sum of Cations	11.27	meq/L
Cl	0.02821	47.00	1.33	
SO4	0.02082	51.00	1.06	
NO3	0.01613	3.30	0.05	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.13	meq/L
Balance (% difference) *			10.51	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	46.00	2.00	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.039	0.0014	
K	0.02258	9.40	0.240	
Ca	0.04990	170.00	8.48	
Mg	0.08229	110.00	9.05	
		Sum of Cations	19.78	meq/L
Cl	0.02821	81.00	2.28	
SO4	0.02082	45.00	0.94	
NO3	0.01613	0.08	0.00	
HCO3	0.01639	912.00	14.95	
		Sum of Anions	18.17	meq/L
Balance (% difference) *			4.24	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	42.00	1.83	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.066	0.0024	
K	0.02258	10.00	0.256	
Ca	0.04990	240.00	11.98	
Mg	0.08229	110.00	9.05	
		Sum of Cations	23.1	meq/L
Cl	0.02821	30.00	0.85	
SO4	0.02082	55.00	1.15	
NO3	0.01613	3.30	0.05	
HCO3	0.01639	1092.00	17.90	
		Sum of Anions	19.94	meq/L
Balance (% difference) *			7.37	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.29	0.0106	
K	0.02258	6.70	0.171	
Ca	0.04990	72.00	3.59	
Mg	0.08229	46.00	3.79	
		Sum of Cations	8.73	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	16.00	0.33	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	7.61	meq/L
Balance (% difference) *			6.85	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.078	0.0028	
K	0.02258	10.00	0.256	
Ca	0.04990	41.00	2.05	
Mg	0.08229	27.00	2.22	
		Sum of Cations	6.0	meq/L
Cl	0.02821	30.00	0.85	
SO4	0.02082	13.00	0.27	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	276.00	4.52	
		Sum of Anions	5.64	meq/L
Balance (% difference) *			3.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	50.00	2.17	
Fe	0.03581	0.43	0	
Mn	0.0364	0.29	0.0106	
K	0.02258	10.00	0.256	
Ca	0.04990	130.00	6.49	
Mg	0.08229	110.00	9.05	
		Sum of Cations	17.98	meq/L
Cl	0.02821	130.00	3.67	
SO4	0.02082	130.00	2.71	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	588.00	9.64	
		Sum of Anions	16.0	meq/L
Balance (% difference) *			5.79	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	2/4/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	8.80	0.225	
Ca	0.04990	120.00	5.99	
Mg	0.08229	82.00	6.75	
		Sum of Cations	14.87	meq/L
Cl	0.02821	71.00	2.00	
SO4	0.02082	61.00	1.27	
NO3	0.01613	2.30	0.04	
HCO3	0.01639	564.00	9.24	
		Sum of Anions	12.55	meq/L
Balance (% difference) *			8.46	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	22.00	0.96	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.028	0.0010	
K	0.02258	6.10	0.156	
Ca	0.04990	70.00	3.49	
Mg	0.08229	27.00	2.22	
		Sum of Cations	6.83	meq/L
Cl	0.02821	37.00	1.04	
SO4	0.02082	22.00	0.46	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	288.00	4.72	
		Sum of Anions	6.22	meq/L
Balance (% difference) *			4.65	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.24	0.0087	
K	0.02258	10.00	0.256	
Ca	0.04990	120.00	5.99	
Mg	0.08229	97.00	7.98	
		Sum of Cations	16.2	meq/L
Cl	0.02821	110.00	3.10	
SO4	0.02082	54.00	1.13	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	684.00	11.21	
		Sum of Anions	15.44	meq/L
Balance (% difference) *			2.39	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	2/2/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.30	0.161	
Ca	0.04990	63.00	3.14	
Mg	0.08229	37.00	3.04	
		Sum of Cations	7.48	meq/L
Cl	0.02821	39.00	1.10	
SO4	0.02082	34.00	0.71	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	312.00	5.11	
		Sum of Anions	6.92	meq/L
Balance (% difference) *			3.88	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.17	0.0062	
K	0.02258	7.10	0.182	
Ca	0.04990	74.00	3.69	
Mg	0.08229	54.00	4.44	
		Sum of Cations	9.89	meq/L
Cl	0.02821	75.00	2.12	
SO4	0.02082	28.00	0.58	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.39	meq/L
Balance (% difference) *			2.62	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	2/3/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	7.60	0.194	
Ca	0.04990	68.00	3.39	
Mg	0.08229	60.00	4.94	
		Sum of Cations	10.01	meq/L
Cl	0.02821	68.00	1.92	
SO4	0.02082	25.00	0.52	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	9.91	meq/L
Balance (% difference) *			0.50	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	10.00	0.256	
Ca	0.04990	57.00	2.84	
Mg	0.08229	74.00	6.09	
		Sum of Cations	11.15	meq/L
Cl	0.02821	71.00	2.00	
SO4	0.02082	31.00	0.65	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.93	meq/L
Balance (% difference) *			5.82	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.12	0.0044	
K	0.02258	6.20	0.159	
Ca	0.04990	78.00	3.89	
Mg	0.08229	50.00	4.11	
		Sum of Cations	9.6	meq/L
Cl	0.02821	56.00	1.58	
SO4	0.02082	39.00	0.81	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.69	meq/L
Balance (% difference) *			5.03	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.14	0.0051	
K	0.02258	6.30	0.161	
Ca	0.04990	61.00	3.04	
Mg	0.08229	41.00	3.37	
		Sum of Cations	7.67	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	19.00	0.40	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	6.92	meq/L
Balance (% difference) *			5.18	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	9.90	0.253	
Ca	0.04990	40.00	2.00	
Mg	0.08229	58.00	4.77	
		Sum of Cations	8.28	meq/L
Cl	0.02821	42.00	1.18	
SO4	0.02082	18.00	0.38	
NO3	0.01613	0.34	0.01	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	7.47	meq/L
Balance (% difference) *			5.20	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	2/4/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	20.00	0.87	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.081	0.0029	
K	0.02258	11.00	0.281	
Ca	0.04990	42.00	2.10	
Mg	0.08229	31.00	2.55	
		Sum of Cations	5.8	meq/L
Cl	0.02821	36.00	1.02	
SO4	0.02082	8.80	0.18	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.53	meq/L
Balance (% difference) *			2.43	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	2/1/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	5.40	0.138	
Ca	0.04990	81.00	4.04	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.57	meq/L
Cl	0.02821	57.00	1.61	
SO4	0.02082	38.00	0.79	
NO3	0.01613	1.30	0.02	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.52	meq/L
Balance (% difference) *			5.80	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.50	0.166	
Ca	0.04990	190.00	9.48	
Mg	0.08229	77.00	6.34	
		Sum of Cations	17.38	meq/L
Cl	0.02821	7.90	0.22	
SO4	0.02082	340.00	7.08	
NO3	0.01613	7.00	0.11	
HCO3	0.01639	564.00	9.24	
		Sum of Anions	16.66	meq/L
Balance (% difference) *			2.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.00	0.153	
Ca	0.04990	130.00	6.49	
Mg	0.08229	48.00	3.95	
		Sum of Cations	11.72	meq/L
Cl	0.02821	100.00	2.82	
SO4	0.02082	42.00	0.88	
NO3	0.01613	12.00	0.19	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	10.77	meq/L
Balance (% difference) *			4.22	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.35	0.0127	
K	0.02258	7.60	0.194	
Ca	0.04990	170.00	8.48	
Mg	0.08229	66.00	5.43	
		Sum of Cations	15.5	meq/L
Cl	0.02821	26.00	0.73	
SO4	0.02082	65.00	1.35	
NO3	0.01613	8.60	0.14	
HCO3	0.01639	696.00	11.41	
		Sum of Anions	13.63	meq/L
Balance (% difference) *			6.45	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.20	0.159	
Ca	0.04990	140.00	6.99	
Mg	0.08229	51.00	4.20	
		Sum of Cations	12.65	meq/L
Cl	0.02821	48.00	1.35	
SO4	0.02082	43.00	0.90	
NO3	0.01613	0.74	0.01	
HCO3	0.01639	600.00	9.83	
		Sum of Anions	12.1	meq/L
Balance (% difference) *			2.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	11.00	0.48	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	<0.15	<0.004	
Ca	0.04990	33.00	1.65	
Mg	0.08229	31.00	2.55	
		Sum of Cations	4.68	meq/L
Cl	0.02821	7.50	0.21	
SO4	0.02082	15.00	0.31	
NO3	0.01613	3.00	0.05	
HCO3	0.01639	228.00	3.74	
		Sum of Anions	4.31	meq/L
Balance (% difference) *			4.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	4/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	9.40	0.240	
Ca	0.04990	180.00	8.98	
Mg	0.08229	97.00	7.98	
		Sum of Cations	18.6	meq/L
Cl	0.02821	37.00	1.04	
SO4	0.02082	110.00	2.29	
NO3	0.01613	5.50	0.09	
HCO3	0.01639	864.00	14.16	
		Sum of Anions	17.6	meq/L
Balance (% difference) *			2.80	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.20	0.159	
Ca	0.04990	130.00	6.49	
Mg	0.08229	48.00	3.95	
		Sum of Cations	11.77	meq/L
Cl	0.02821	40.00	1.13	
SO4	0.02082	45.00	0.94	
NO3	0.01613	5.90	0.10	
HCO3	0.01639	528.00	8.65	
		Sum of Anions	10.81	meq/L
Balance (% difference) *			4.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	4/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.40	0.164	
Ca	0.04990	65.00	3.24	
Mg	0.08229	41.00	3.37	
		Sum of Cations	7.83	meq/L
Cl	0.02821	48.00	1.35	
SO4	0.02082	35.00	0.73	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	336.00	5.51	
		Sum of Anions	7.59	meq/L
Balance (% difference) *			1.53	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	17.00	0.74	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	5.50	0.141	
Ca	0.04990	100.00	4.99	
Mg	0.08229	34.00	2.80	
		Sum of Cations	8.67	meq/L
Cl	0.02821	20.00	0.56	
SO4	0.02082	64.00	1.33	
NO3	0.01613	5.00	0.08	
HCO3	0.01639	348.00	5.70	
		Sum of Anions	7.68	meq/L
Balance (% difference) *			6.04	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	4/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.069	0.0025	
K	0.02258	7.00	0.179	
Ca	0.04990	140.00	6.99	
Mg	0.08229	85.00	6.99	
		Sum of Cations	15.47	meq/L
Cl	0.02821	63.00	1.78	
SO4	0.02082	110.00	2.29	
NO3	0.01613	45.00	0.73	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	12.27	meq/L
Balance (% difference) *			11.54	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	6.70	0.171	
Ca	0.04990	76.00	3.79	
Mg	0.08229	49.00	4.03	
		Sum of Cations	9.44	meq/L
Cl	0.02821	61.00	1.72	
SO4	0.02082	31.00	0.65	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.05	meq/L
Balance (% difference) *			2.09	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.30	0.161	
Ca	0.04990	77.00	3.84	
Mg	0.08229	50.00	4.11	
		Sum of Cations	9.47	meq/L
Cl	0.02821	68.00	1.92	
SO4	0.02082	39.00	0.81	
NO3	0.01613	1.20	0.02	
HCO3	0.01639	348.00	5.70	
		Sum of Anions	8.45	meq/L
Balance (% difference) *			5.65	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	42.00	1.83	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	4.20	0.107	
Ca	0.04990	86.00	4.29	
Mg	0.08229	47.00	3.87	
		Sum of Cations	10.1	meq/L
Cl	0.02821	48.00	1.35	
SO4	0.02082	56.00	1.17	
NO3	0.01613	3.50	0.06	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.66	meq/L
Balance (% difference) *			2.21	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	4/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.04	0.0015	
K	0.02258	8.70	0.223	
Ca	0.04990	160.00	7.98	
Mg	0.08229	110.00	9.05	
		Sum of Cations	19.2	meq/L
Cl	0.02821	83.00	2.34	
SO4	0.02082	50.00	1.04	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	888.00	14.55	
		Sum of Anions	17.94	meq/L
Balance (% difference) *			3.45	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	39.00	1.70	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.061	0.0022	
K	0.02258	9.40	0.240	
Ca	0.04990	210.00	10.48	
Mg	0.08229	100.00	8.23	
		Sum of Cations	20.65	meq/L
Cl	0.02821	31.00	0.87	
SO4	0.02082	60.00	1.25	
NO3	0.01613	3.40	0.05	
HCO3	0.01639	1032.00	16.91	
		Sum of Anions	19.1	meq/L
Balance (% difference) *			3.91	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.26	0.0095	
K	0.02258	6.70	0.171	
Ca	0.04990	69.00	3.44	
Mg	0.08229	43.00	3.54	
		Sum of Cations	8.34	meq/L
Cl	0.02821	36.00	1.02	
SO4	0.02082	16.00	0.33	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	7.64	meq/L
Balance (% difference) *			4.35	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.066	0.0024	
K	0.02258	10.00	0.256	
Ca	0.04990	38.00	1.90	
Mg	0.08229	25.00	2.06	
		Sum of Cations	5.69	meq/L
Cl	0.02821	32.00	0.90	
SO4	0.02082	13.00	0.27	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.5	meq/L
Balance (% difference) *			1.70	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	46.00	2.00	
Fe	0.03581	0.34	0	
Mn	0.0364	0.25	0.0091	
K	0.02258	10.00	0.256	
Ca	0.04990	120.00	5.99	
Mg	0.08229	99.00	8.15	
		Sum of Cations	16.4	meq/L
Cl	0.02821	130.00	3.67	
SO4	0.02082	150.00	3.13	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	588.00	9.64	
		Sum of Anions	16.43	meq/L
Balance (% difference) *			-0.09	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	4/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	40.00	1.74	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	8.10	0.207	
Ca	0.04990	110.00	5.49	
Mg	0.08229	73.00	6.01	
		Sum of Cations	13.44	meq/L
Cl	0.02821	75.00	2.12	
SO4	0.02082	65.00	1.35	
NO3	0.01613	2.70	0.04	
HCO3	0.01639	552.00	9.05	
		Sum of Anions	12.56	meq/L
Balance (% difference) *			3.40	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	21.00	0.91	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.026	0.0009	
K	0.02258	6.10	0.156	
Ca	0.04990	70.00	3.49	
Mg	0.08229	26.00	2.14	
		Sum of Cations	6.7	meq/L
Cl	0.02821	37.00	1.04	
SO4	0.02082	25.00	0.52	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	288.00	4.72	
		Sum of Anions	6.28	meq/L
Balance (% difference) *			3.22	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	4/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	43.00	1.87	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.24	0.0087	
K	0.02258	10.00	0.256	
Ca	0.04990	120.00	5.99	
Mg	0.08229	94.00	7.74	
		Sum of Cations	15.86	meq/L
Cl	0.02821	120.00	3.38	
SO4	0.02082	59.00	1.23	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	672.00	11.01	
		Sum of Anions	15.63	meq/L
Balance (% difference) *			0.73	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	6.50	0.166	
Ca	0.04990	64.00	3.19	
Mg	0.08229	38.00	3.13	
		Sum of Cations	7.62	meq/L
Cl	0.02821	41.00	1.16	
SO4	0.02082	36.00	0.75	
NO3	0.01613	0.08	0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.82	meq/L
Balance (% difference) *			5.49	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.70	0.197	
Ca	0.04990	76.00	3.79	
Mg	0.08229	52.00	4.28	
		Sum of Cations	9.84	meq/L
Cl	0.02821	73.00	2.06	
SO4	0.02082	32.00	0.67	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	9.22	meq/L
Balance (% difference) *			3.28	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	8.50	0.217	
Ca	0.04990	72.00	3.59	
Mg	0.08229	63.00	5.18	
		Sum of Cations	10.48	meq/L
Cl	0.02821	73.00	2.06	
SO4	0.02082	28.00	0.58	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.72	meq/L
Balance (% difference) *			3.75	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	42.00	1.83	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.15	0.0055	
K	0.02258	9.80	0.251	
Ca	0.04990	55.00	2.74	
Mg	0.08229	68.00	5.60	
		Sum of Cations	10.42	meq/L
Cl	0.02821	69.00	1.95	
SO4	0.02082	35.00	0.73	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.95	meq/L
Balance (% difference) *			2.31	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	0.3	0	
Mn	0.0364	0.11	0.0040	
K	0.02258	5.90	0.151	
Ca	0.04990	74.00	3.69	
Mg	0.08229	47.00	3.87	
		Sum of Cations	9.02	meq/L
Cl	0.02821	62.00	1.75	
SO4	0.02082	43.00	0.90	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.74	meq/L
Balance (% difference) *			1.57	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	<0.18	<0	
Mn	0.0364	0.13	0.0047	
K	0.02258	6.30	0.161	
Ca	0.04990	57.00	2.84	
Mg	0.08229	37.00	3.04	
		Sum of Cations	7.1	meq/L
Cl	0.02821	24.00	0.68	
SO4	0.02082	22.00	0.46	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	348.00	5.70	
		Sum of Anions	6.84	meq/L
Balance (% difference) *			1.87	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	4/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	10.00	0.256	
Ca	0.04990	39.00	1.95	
Mg	0.08229	54.00	4.44	
		Sum of Cations	7.9	meq/L
Cl	0.02821	43.00	1.21	
SO4	0.02082	23.00	0.48	
NO3	0.01613	0.42	0.01	
HCO3	0.01639	348.00	5.70	
		Sum of Anions	7.4	meq/L
Balance (% difference) *			3.30	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	4/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	19.00	0.83	
Fe	0.03581	0.32	0	
Mn	0.0364	0.093	0.0034	
K	0.02258	11.00	0.281	
Ca	0.04990	42.00	2.10	
Mg	0.08229	30.00	2.47	
		Sum of Cations	5.68	meq/L
Cl	0.02821	41.00	1.16	
SO4	0.02082	11.00	0.23	
NO3	0.01613	<0.00	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.71	meq/L
Balance (% difference) *			-0.32	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	4/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.18	<0	
Mn	0.0364	<0.0017	<0.0001	
K	0.02258	5.40	0.138	
Ca	0.04990	78.00	3.89	
Mg	0.08229	44.00	3.62	
		Sum of Cations	8.96	meq/L
Cl	0.02821	57.00	1.61	
SO4	0.02082	43.00	0.90	
NO3	0.01613	1.30	0.02	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	8.42	meq/L
Balance (% difference) *			3.06	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.50	0.166	
Ca	0.04990	200.00	9.98	
Mg	0.08229	80.00	6.58	
		Sum of Cations	18.17	meq/L
Cl	0.02821	8.80	0.25	
SO4	0.02082	350.00	7.29	
NO3	0.01613	8.50	0.14	
HCO3	0.01639	636.00	10.42	
		Sum of Anions	18.1	meq/L
Balance (% difference) *			0.18	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.90	0.151	
Ca	0.04990	120.00	5.99	
Mg	0.08229	47.00	3.87	
		Sum of Cations	11.18	meq/L
Cl	0.02821	94.00	2.65	
SO4	0.02082	40.00	0.83	
NO3	0.01613	13.00	0.21	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	11.17	meq/L
Balance (% difference) *			0.06	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.35	0.0127	
K	0.02258	7.00	0.179	
Ca	0.04990	150.00	7.49	
Mg	0.08229	64.00	5.27	
		Sum of Cations	14.25	meq/L
Cl	0.02821	24.00	0.68	
SO4	0.02082	61.00	1.27	
NO3	0.01613	8.70	0.14	
HCO3	0.01639	768.00	12.59	
		Sum of Anions	14.67	meq/L
Balance (% difference) *			-1.47	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.80	0.174	
Ca	0.04990	130.00	6.49	
Mg	0.08229	51.00	4.20	
		Sum of Cations	12.16	meq/L
Cl	0.02821	54.00	1.52	
SO4	0.02082	45.00	0.94	
NO3	0.01613	0.71	0.01	
HCO3	0.01639	624.00	10.23	
		Sum of Anions	12.7	meq/L
Balance (% difference) *			-2.15	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	11.00	0.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	<1.65	<0.042	
Ca	0.04990	35.00	1.75	
Mg	0.08229	32.00	2.63	
		Sum of Cations	4.9	meq/L
Cl	0.02821	5.10	0.14	
SO4	0.02082	17.00	0.35	
NO3	0.01613	4.90	0.08	
HCO3	0.01639	252.00	4.13	
		Sum of Anions	4.71	meq/L
Balance (% difference) *			2.02	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	9.70	0.248	
Ca	0.04990	180.00	8.98	
Mg	0.08229	96.00	7.90	
		Sum of Cations	18.57	meq/L
Cl	0.02821	33.00	0.93	
SO4	0.02082	130.00	2.71	
NO3	0.01613	6.30	0.10	
HCO3	0.01639	888.00	14.55	
		Sum of Anions	18.3	meq/L
Balance (% difference) *			0.74	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.50	0.141	
Ca	0.04990	120.00	5.99	
Mg	0.08229	44.00	3.62	
		Sum of Cations	10.88	meq/L
Cl	0.02821	39.00	1.10	
SO4	0.02082	43.00	0.90	
NO3	0.01613	6.10	0.10	
HCO3	0.01639	576.00	9.44	
		Sum of Anions	11.53	meq/L
Balance (% difference) *			-2.91	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	65.00	3.24	
Mg	0.08229	41.00	3.37	
		Sum of Cations	7.91	meq/L
Cl	0.02821	44.00	1.24	
SO4	0.02082	34.00	0.71	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.05	meq/L
Balance (% difference) *			-0.84	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	17.00	0.74	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.70	0.146	
Ca	0.04990	94.00	4.69	
Mg	0.08229	31.00	2.55	
		Sum of Cations	8.13	meq/L
Cl	0.02821	21.00	0.59	
SO4	0.02082	67.00	1.40	
NO3	0.01613	5.50	0.09	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.37	meq/L
Balance (% difference) *			-1.47	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.06	0.0022	
K	0.02258	6.70	0.171	
Ca	0.04990	130.00	6.49	
Mg	0.08229	79.00	6.50	
		Sum of Cations	14.42	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	120.00	2.50	
NO3	0.01613	46.00	0.74	
HCO3	0.01639	492.00	8.06	
		Sum of Anions	13.2	meq/L
Balance (% difference) *			4.45	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	6.30	0.161	
Ca	0.04990	74.00	3.69	
Mg	0.08229	49.00	4.03	
		Sum of Cations	9.33	meq/L
Cl	0.02821	59.00	1.66	
SO4	0.02082	29.00	0.60	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.55	meq/L
Balance (% difference) *			-1.15	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.30	0.136	
Ca	0.04990	65.00	3.24	
Mg	0.08229	42.00	3.46	
		Sum of Cations	8.05	meq/L
Cl	0.02821	74.00	2.09	
SO4	0.02082	38.00	0.79	
NO3	0.01613	1.20	0.02	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	9.0	meq/L
Balance (% difference) *			-5.52	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	4.60	0.118	
Ca	0.04990	85.00	4.24	
Mg	0.08229	47.00	3.87	
		Sum of Cations	9.84	meq/L
Cl	0.02821	52.00	1.47	
SO4	0.02082	57.00	1.19	
NO3	0.01613	3.70	0.06	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	10.0	meq/L
Balance (% difference) *			-0.78	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.041	0.0015	
K	0.02258	8.80	0.225	
Ca	0.04990	160.00	7.98	
Mg	0.08229	110.00	9.05	
		Sum of Cations	19.22	meq/L
Cl	0.02821	110.00	3.10	
SO4	0.02082	80.00	1.67	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	972.00	15.93	
		Sum of Anions	20.7	meq/L
Balance (% difference) *			-3.71	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.059	0.0021	
K	0.02258	8.60	0.220	
Ca	0.04990	190.00	9.48	
Mg	0.08229	96.00	7.90	
		Sum of Cations	19.2	meq/L
Cl	0.02821	28.00	0.79	
SO4	0.02082	60.00	1.25	
NO3	0.01613	3.90	0.06	
HCO3	0.01639	1080.00	17.70	
		Sum of Anions	19.8	meq/L
Balance (% difference) *			-1.51	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.076	0.0028	
K	0.02258	7.10	0.182	
Ca	0.04990	64.00	3.19	
Mg	0.08229	40.00	3.29	
		Sum of Cations	7.8	meq/L
Cl	0.02821	39.00	1.10	
SO4	0.02082	16.00	0.33	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.92	meq/L
Balance (% difference) *			-0.78	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.053	0.0019	
K	0.02258	11.00	0.281	
Ca	0.04990	33.00	1.65	
Mg	0.08229	24.00	1.97	
		Sum of Cations	5.51	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	13.00	0.27	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	276.00	4.52	
		Sum of Anions	5.78	meq/L
Balance (% difference) *			-2.37	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	46.00	2.00	
Fe	0.03581	0.42	0	
Mn	0.0364	0.21	0.0076	
K	0.02258	9.60	0.246	
Ca	0.04990	120.00	5.99	
Mg	0.08229	98.00	8.06	
		Sum of Cations	16.3	meq/L
Cl	0.02821	170.00	4.80	
SO4	0.02082	190.00	3.96	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	636.00	10.42	
		Sum of Anions	19.18	meq/L
Balance (% difference) *			-8.09	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	41.00	1.78	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	8.20	0.210	
Ca	0.04990	110.00	5.49	
Mg	0.08229	72.00	5.92	
		Sum of Cations	13.4	meq/L
Cl	0.02821	70.00	1.97	
SO4	0.02082	66.00	1.38	
NO3	0.01613	2.70	0.04	
HCO3	0.01639	612.00	10.03	
		Sum of Anions	13.42	meq/L
Balance (% difference) *			-0.06	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	20.00	0.87	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.028	0.0010	
K	0.02258	5.50	0.141	
Ca	0.04990	63.00	3.14	
Mg	0.08229	24.00	1.97	
		Sum of Cations	6.13	meq/L
Cl	0.02821	36.00	1.02	
SO4	0.02082	23.00	0.48	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.41	meq/L
Balance (% difference) *			-2.24	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.23	0.0084	
K	0.02258	9.70	0.248	
Ca	0.04990	110.00	5.49	
Mg	0.08229	90.00	7.41	
		Sum of Cations	15.07	meq/L
Cl	0.02821	110.00	3.10	
SO4	0.02082	58.00	1.21	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	720.00	11.80	
		Sum of Anions	16.1	meq/L
Balance (% difference) *			-3.35	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	57.00	2.84	
Mg	0.08229	32.00	2.63	
		Sum of Cations	6.69	meq/L
Cl	0.02821	40.00	1.13	
SO4	0.02082	37.00	0.77	
NO3	0.01613	0.09	0.00	
HCO3	0.01639	336.00	5.51	
		Sum of Anions	7.4	meq/L
Balance (% difference) *			-5.12	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	0.32	0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.40	0.189	
Ca	0.04990	76.00	3.79	
Mg	0.08229	54.00	4.44	
		Sum of Cations	10.04	meq/L
Cl	0.02821	72.00	2.03	
SO4	0.02082	30.00	0.63	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.54	meq/L
Balance (% difference) *			2.56	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.19	0.0069	
K	0.02258	7.60	0.194	
Ca	0.04990	66.00	3.29	
Mg	0.08229	59.00	4.85	
		Sum of Cations	9.79	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	26.00	0.54	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	9.9	meq/L
Balance (% difference) *			-0.61	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	41.00	1.78	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.14	0.0051	
K	0.02258	9.20	0.235	
Ca	0.04990	51.00	2.55	
Mg	0.08229	65.00	5.35	
		Sum of Cations	9.92	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	33.00	0.69	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	480.00	7.87	
		Sum of Anions	10.44	meq/L
Balance (% difference) *			-2.59	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	7/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	0.31	0	
Mn	0.0364	0.11	0.0040	
K	0.02258	5.90	0.151	
Ca	0.04990	74.00	3.69	
Mg	0.08229	46.00	3.79	
		Sum of Cations	8.98	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	41.00	0.85	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.9	meq/L
Balance (% difference) *			0.48	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	23.00	1.00	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.14	0.0051	
K	0.02258	5.90	0.151	
Ca	0.04990	55.00	2.74	
Mg	0.08229	38.00	3.13	
		Sum of Cations	7.03	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	21.00	0.44	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	7.18	meq/L
Balance (% difference) *			-1.09	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	11.00	0.281	
Ca	0.04990	37.00	1.85	
Mg	0.08229	52.00	4.28	
		Sum of Cations	7.62	meq/L
Cl	0.02821	47.00	1.33	
SO4	0.02082	25.00	0.52	
NO3	0.01613	0.27	0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	7.95	meq/L
Balance (% difference) *			-2.07	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	7/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	20.00	0.87	
Fe	0.03581	0.36	0	
Mn	0.0364	0.086	0.0031	
K	0.02258	11.00	0.281	
Ca	0.04990	40.00	2.00	
Mg	0.08229	29.00	2.39	
		Sum of Cations	5.54	meq/L
Cl	0.02821	36.00	1.02	
SO4	0.02082	8.80	0.18	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.53	meq/L
Balance (% difference) *			0.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	7/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.60	0.143	
Ca	0.04990	72.00	3.59	
Mg	0.08229	41.00	3.37	
		Sum of Cations	8.42	meq/L
Cl	0.02821	62.00	1.75	
SO4	0.02082	44.00	0.92	
NO3	0.01613	1.40	0.02	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	9.18	meq/L
Balance (% difference) *			-4.34	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	10/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.00	0.153	
Ca	0.04990	160.00	7.98	
Mg	0.08229	65.00	5.35	
		Sum of Cations	14.84	meq/L
Cl	0.02821	4.60	0.13	
SO4	0.02082	200.00	4.17	
NO3	0.01613	4.60	0.07	
HCO3	0.01639	588.00	9.64	
		Sum of Anions	14.0	meq/L
Balance (% difference) *			2.87	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	10/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.00	0.153	
Ca	0.04990	120.00	5.99	
Mg	0.08229	47.00	3.87	
		Sum of Cations	11.23	meq/L
Cl	0.02821	93.00	2.62	
SO4	0.02082	39.00	0.81	
NO3	0.01613	12.00	0.19	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	10.9	meq/L
Balance (% difference) *			1.45	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	10/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.37	0.0135	
K	0.02258	7.70	0.197	
Ca	0.04990	170.00	8.48	
Mg	0.08229	71.00	5.84	
		Sum of Cations	16.0	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	63.00	1.31	
NO3	0.01613	8.70	0.14	
HCO3	0.01639	768.00	12.59	
		Sum of Anions	14.66	meq/L
Balance (% difference) *			4.42	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.30	0.161	
Ca	0.04990	140.00	6.99	
Mg	0.08229	55.00	4.53	
		Sum of Cations	13.07	meq/L
Cl	0.02821	48.00	1.35	
SO4	0.02082	45.00	0.94	
NO3	0.01613	0.86	0.01	
HCO3	0.01639	636.00	10.42	
		Sum of Anions	12.73	meq/L
Balance (% difference) *			1.31	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	12.00	0.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	<1.65	<0.042	
Ca	0.04990	37.00	1.85	
Mg	0.08229	35.00	2.88	
		Sum of Cations	5.29	meq/L
Cl	0.02821	4.90	0.14	
SO4	0.02082	18.00	0.38	
NO3	0.01613	6.00	0.10	
HCO3	0.01639	252.00	4.13	
		Sum of Anions	4.74	meq/L
Balance (% difference) *			5.49	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	10/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	9.50	0.243	
Ca	0.04990	180.00	8.98	
Mg	0.08229	94.00	7.74	
		Sum of Cations	18.35	meq/L
Cl	0.02821	31.00	0.87	
SO4	0.02082	110.00	2.29	
NO3	0.01613	6.20	0.10	
HCO3	0.01639	876.00	14.36	
		Sum of Anions	17.62	meq/L
Balance (% difference) *			2.03	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.00	0.153	
Ca	0.04990	130.00	6.49	
Mg	0.08229	47.00	3.87	
		Sum of Cations	11.73	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	44.00	0.92	
NO3	0.01613	6.10	0.10	
HCO3	0.01639	528.00	8.65	
		Sum of Anions	10.74	meq/L
Balance (% difference) *			4.39	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	10/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.70	0.171	
Ca	0.04990	67.00	3.34	
Mg	0.08229	43.00	3.54	
		Sum of Cations	8.23	meq/L
Cl	0.02821	43.00	1.21	
SO4	0.02082	34.00	0.71	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.41	meq/L
Balance (% difference) *			-1.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	18.00	0.78	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.30	0.136	
Ca	0.04990	100.00	4.99	
Mg	0.08229	34.00	2.80	
		Sum of Cations	8.7	meq/L
Cl	0.02821	19.00	0.54	
SO4	0.02082	71.00	1.48	
NO3	0.01613	5.70	0.09	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.4	meq/L
Balance (% difference) *			1.79	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	10/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.056	0.0020	
K	0.02258	6.90	0.176	
Ca	0.04990	130.00	6.49	
Mg	0.08229	81.00	6.67	
		Sum of Cations	14.64	meq/L
Cl	0.02821	58.00	1.64	
SO4	0.02082	97.00	2.02	
NO3	0.01613	43.00	0.69	
HCO3	0.01639	504.00	8.26	
		Sum of Anions	12.6	meq/L
Balance (% difference) *			7.43	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	6.70	0.171	
Ca	0.04990	76.00	3.79	
Mg	0.08229	52.00	4.28	
		Sum of Cations	9.77	meq/L
Cl	0.02821	63.00	1.78	
SO4	0.02082	30.00	0.63	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.48	meq/L
Balance (% difference) *			1.51	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	10/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.80	0.148	
Ca	0.04990	74.00	3.69	
Mg	0.08229	49.00	4.03	
		Sum of Cations	9.27	meq/L
Cl	0.02821	62.00	1.75	
SO4	0.02082	38.00	0.79	
NO3	0.01613	1.30	0.02	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.25	meq/L
Balance (% difference) *			0.09	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	4.10	0.105	
Ca	0.04990	86.00	4.29	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.96	meq/L
Cl	0.02821	49.00	1.38	
SO4	0.02082	58.00	1.21	
NO3	0.01613	3.90	0.06	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.93	meq/L
Balance (% difference) *			0.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	10/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	49.00	2.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.047	0.0017	
K	0.02258	9.50	0.243	
Ca	0.04990	180.00	8.98	
Mg	0.08229	120.00	9.87	
		Sum of Cations	21.23	meq/L
Cl	0.02821	73.00	2.06	
SO4	0.02082	56.00	1.17	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	1032.00	16.91	
		Sum of Anions	20.14	meq/L
Balance (% difference) *			2.64	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	10/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	42.00	1.83	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.063	0.0023	
K	0.02258	9.60	0.246	
Ca	0.04990	210.00	10.48	
Mg	0.08229	110.00	9.05	
		Sum of Cations	21.6	meq/L
Cl	0.02821	27.00	0.76	
SO4	0.02082	66.00	1.38	
NO3	0.01613	4.30	0.07	
HCO3	0.01639	1032.00	16.91	
		Sum of Anions	19.12	meq/L
Balance (% difference) *			6.11	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	10/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.24	0.0087	
K	0.02258	6.60	0.169	
Ca	0.04990	69.00	3.44	
Mg	0.08229	44.00	3.62	
		Sum of Cations	8.42	meq/L
Cl	0.02821	33.00	0.93	
SO4	0.02082	15.00	0.31	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	8.13	meq/L
Balance (% difference) *			1.75	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.062	0.0023	
K	0.02258	10.00	0.256	
Ca	0.04990	36.00	1.80	
Mg	0.08229	26.00	2.14	
		Sum of Cations	5.85	meq/L
Cl	0.02821	32.00	0.90	
SO4	0.02082	11.00	0.23	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.46	meq/L
Balance (% difference) *			3.43	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	47.00	2.04	
Fe	0.03581	0.31	0	
Mn	0.0364	0.25	0.0091	
K	0.02258	9.90	0.253	
Ca	0.04990	120.00	5.99	
Mg	0.08229	100.00	8.23	
		Sum of Cations	16.52	meq/L
Cl	0.02821	120.00	3.38	
SO4	0.02082	130.00	2.71	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	600.00	9.83	
		Sum of Anions	15.93	meq/L
Balance (% difference) *			1.84	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	10/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	41.00	1.78	
Fe	0.03581	1.3	0	
Mn	0.0364	0.02	0.0007	
K	0.02258	8.30	0.212	
Ca	0.04990	110.00	5.49	
Mg	0.08229	73.00	6.01	
		Sum of Cations	13.5	meq/L
Cl	0.02821	72.00	2.03	
SO4	0.02082	72.00	1.50	
NO3	0.01613	2.90	0.05	
HCO3	0.01639	612.00	10.03	
		Sum of Anions	13.6	meq/L
Balance (% difference) *			-0.42	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	23.00	1.00	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.027	0.0010	
K	0.02258	6.30	0.161	
Ca	0.04990	72.00	3.59	
Mg	0.08229	27.00	2.22	
		Sum of Cations	6.98	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	24.00	0.50	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.49	meq/L
Balance (% difference) *			3.63	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	10/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	48.00	2.09	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.24	0.0087	
K	0.02258	11.00	0.281	
Ca	0.04990	130.00	6.49	
Mg	0.08229	100.00	8.23	
		Sum of Cations	17.1	meq/L
Cl	0.02821	96.00	2.71	
SO4	0.02082	61.00	1.27	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	756.00	12.39	
		Sum of Anions	16.37	meq/L
Balance (% difference) *			2.17	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.10	0.156	
Ca	0.04990	61.00	3.04	
Mg	0.08229	35.00	2.88	
		Sum of Cations	7.25	meq/L
Cl	0.02821	37.00	1.04	
SO4	0.02082	36.00	0.75	
NO3	0.01613	0.05	0.00	
HCO3	0.01639	312.00	5.11	
		Sum of Anions	6.91	meq/L
Balance (% difference) *			2.45	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.60	0.194	
Ca	0.04990	74.00	3.69	
Mg	0.08229	54.00	4.44	
		Sum of Cations	9.99	meq/L
Cl	0.02821	77.00	2.17	
SO4	0.02082	30.00	0.63	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.88	meq/L
Balance (% difference) *			0.56	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	10/28/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.19	0.0069	
K	0.02258	8.00	0.205	
Ca	0.04990	70.00	3.49	
Mg	0.08229	62.00	5.10	
		Sum of Cations	10.33	meq/L
Cl	0.02821	66.00	1.86	
SO4	0.02082	25.00	0.52	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.66	meq/L
Balance (% difference) *			3.35	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	10/24/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.15	0.0055	
K	0.02258	10.00	0.256	
Ca	0.04990	54.00	2.69	
Mg	0.08229	70.00	5.76	
		Sum of Cations	10.63	meq/L
Cl	0.02821	73.00	2.06	
SO4	0.02082	35.00	0.73	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	10.26	meq/L
Balance (% difference) *			1.76	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	10/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	0.33	0	
Mn	0.0364	0.1	0.0036	
K	0.02258	5.90	0.151	
Ca	0.04990	73.00	3.64	
Mg	0.08229	45.00	3.70	
		Sum of Cations	8.85	meq/L
Cl	0.02821	54.00	1.52	
SO4	0.02082	41.00	0.85	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.87	meq/L
Balance (% difference) *			-0.11	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	10/26/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.14	0.0051	
K	0.02258	6.10	0.156	
Ca	0.04990	56.00	2.79	
Mg	0.08229	38.00	3.13	
		Sum of Cations	7.17	meq/L
Cl	0.02821	21.00	0.59	
SO4	0.02082	20.00	0.42	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	6.91	meq/L
Balance (% difference) *			1.85	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	10.00	0.256	
Ca	0.04990	40.00	2.00	
Mg	0.08229	57.00	4.69	
		Sum of Cations	8.2	meq/L
Cl	0.02821	44.00	1.24	
SO4	0.02082	23.00	0.48	
NO3	0.01613	0.51	0.01	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	7.83	meq/L
Balance (% difference) *			2.36	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	10/27/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	22.00	0.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.091	0.0033	
K	0.02258	12.00	0.307	
Ca	0.04990	43.00	2.15	
Mg	0.08229	32.00	2.63	
		Sum of Cations	6.05	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	7.70	0.16	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	252.00	4.13	
		Sum of Anions	5.28	meq/L
Balance (% difference) *			6.78	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

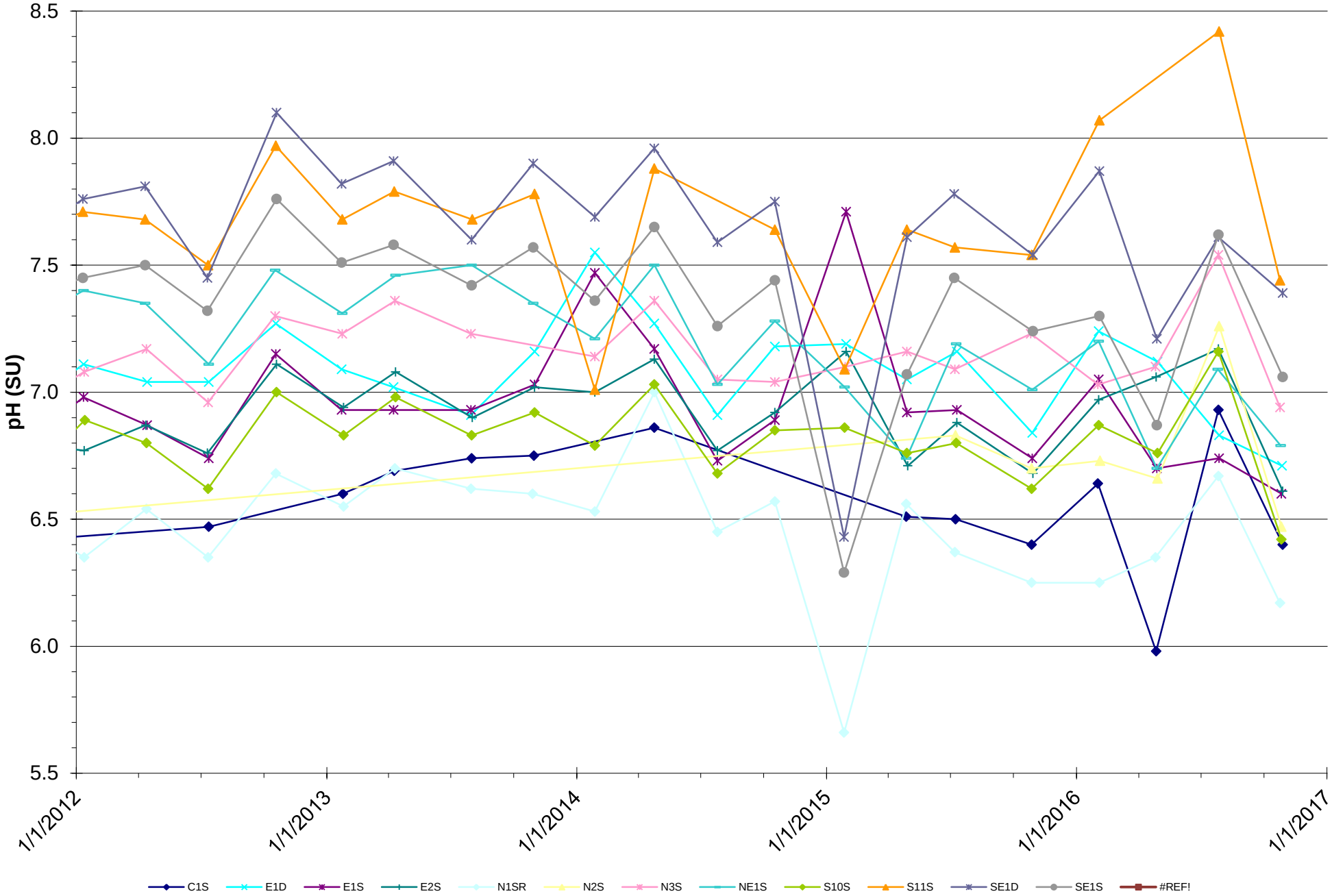
Location	WR1
Sample Date	10/25/2016

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.40	0.138	
Ca	0.04990	79.00	3.94	
Mg	0.08229	45.00	3.70	
		Sum of Cations	9.18	meq/L
Cl	0.02821	58.00	1.64	
SO4	0.02082	43.00	0.90	
NO3	0.01613	1.40	0.02	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.24	meq/L
Balance (% difference) *			-0.36	%

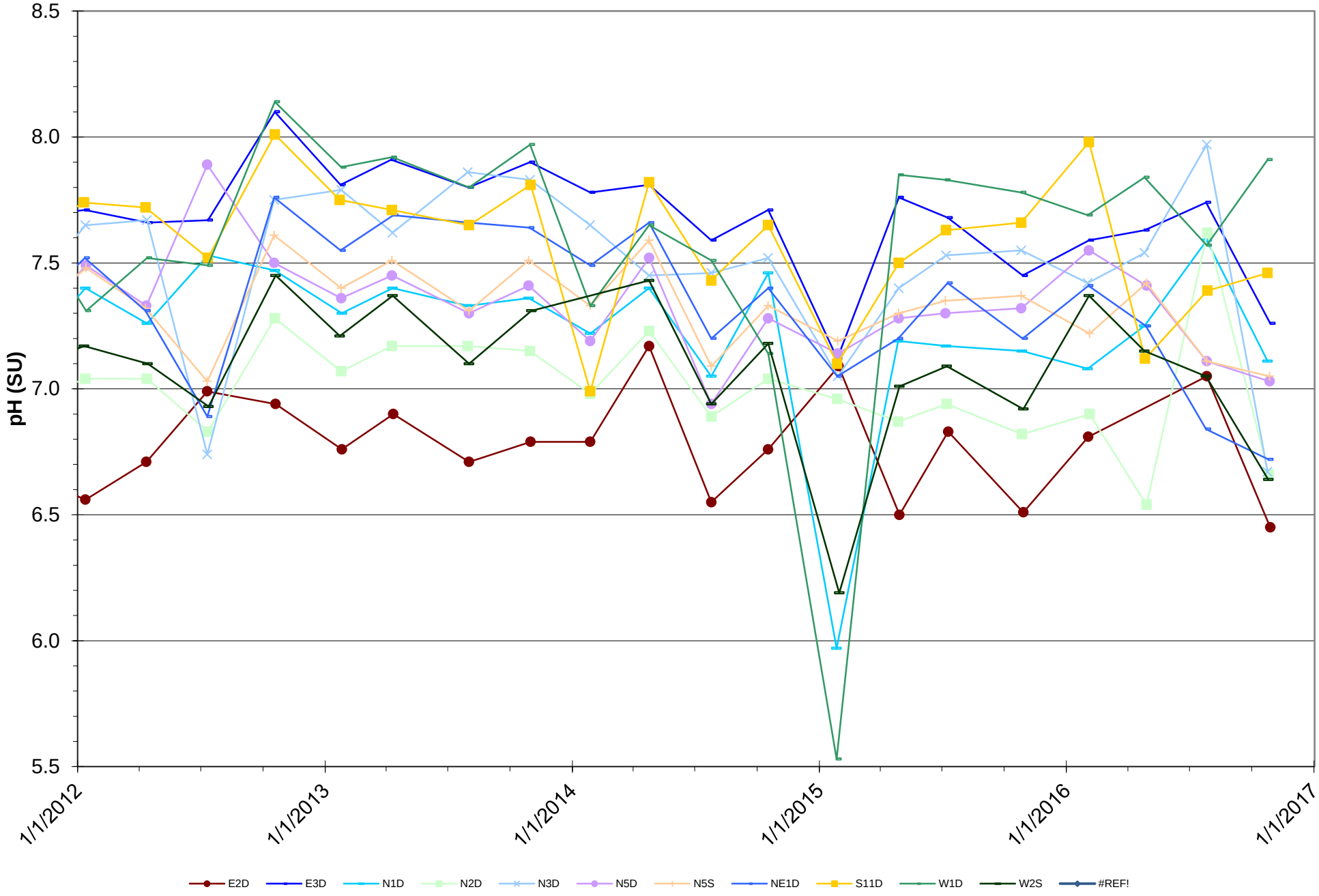
+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

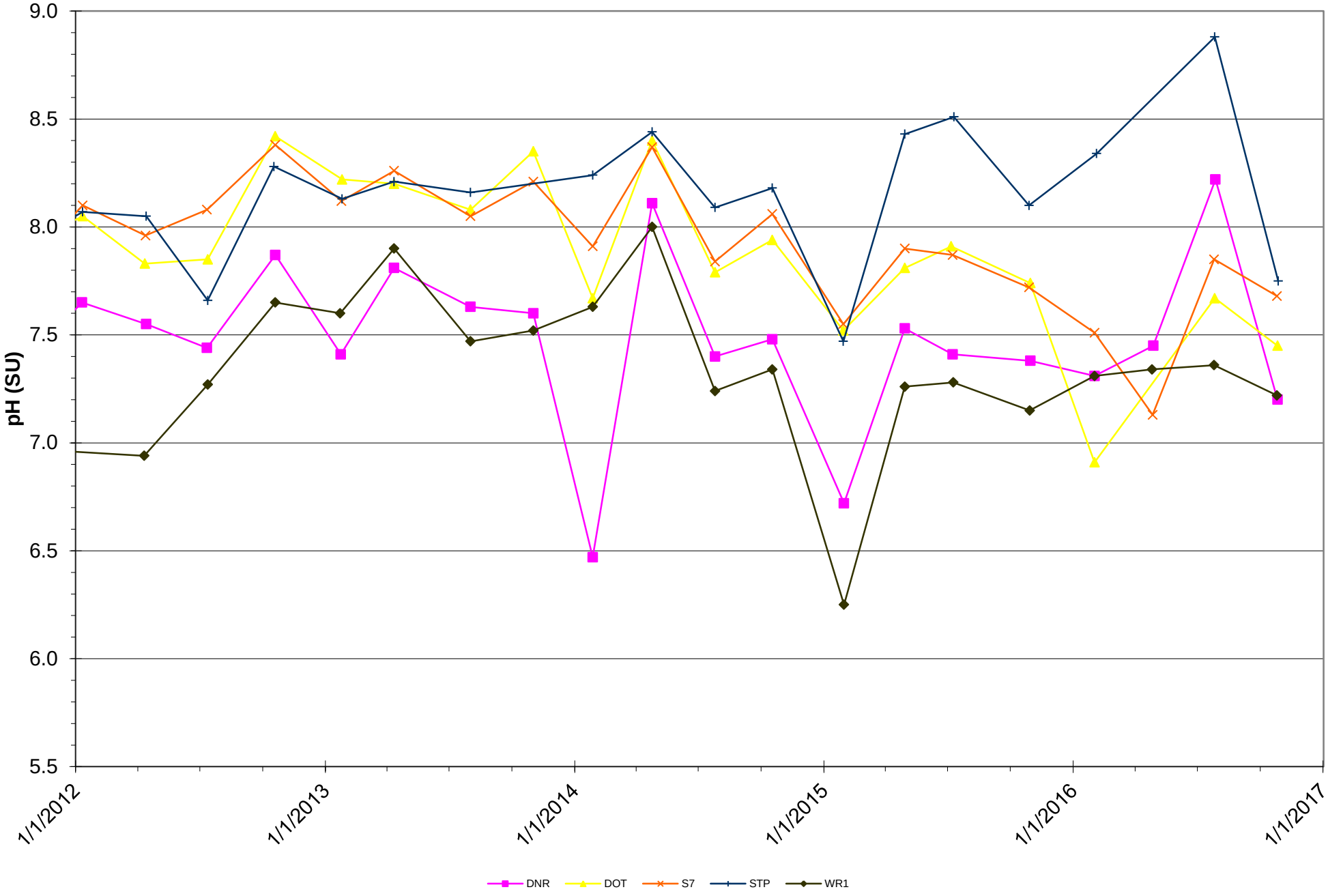
pH Times Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

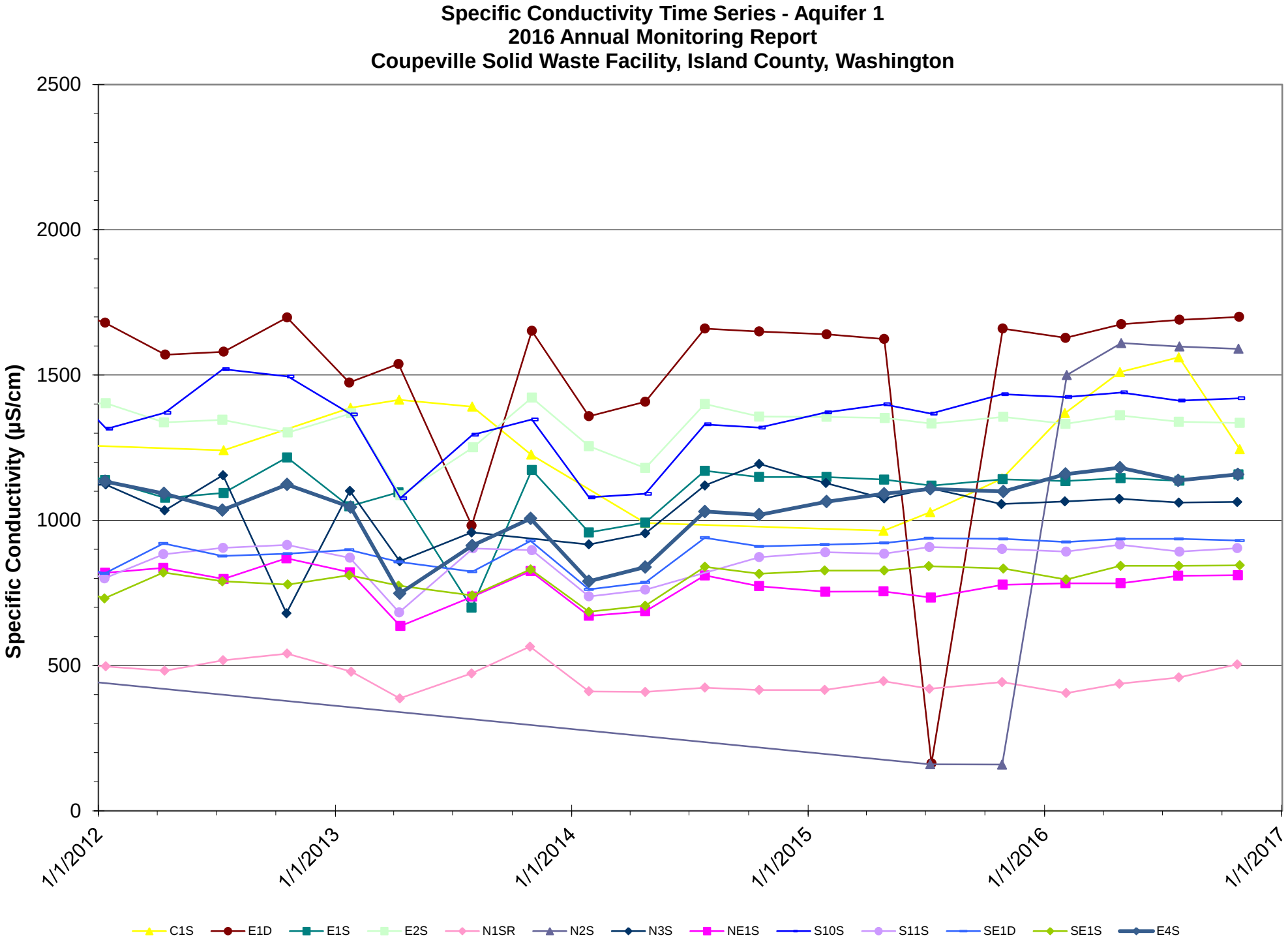


pH Times Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

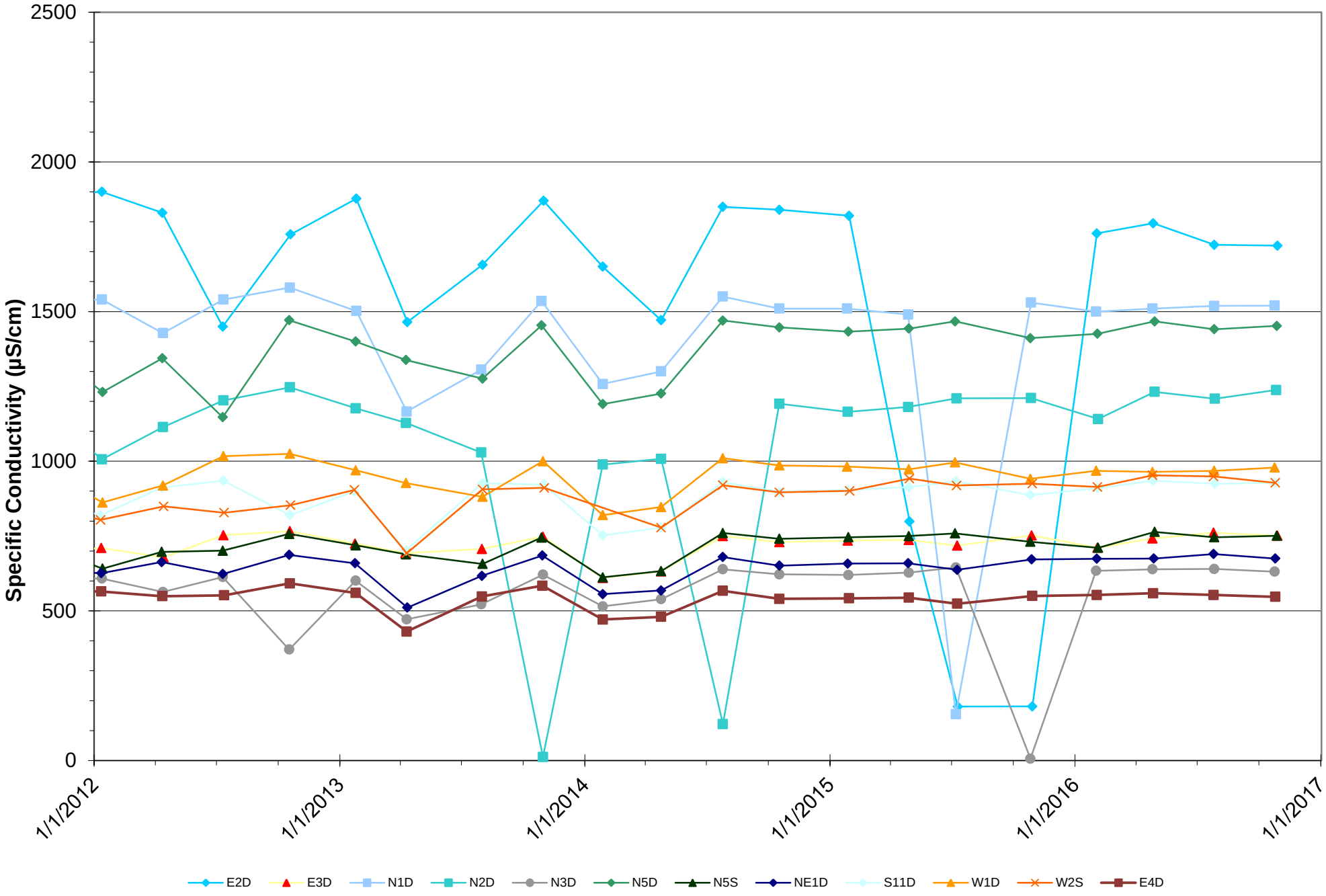


pH Times Series - Pumping Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

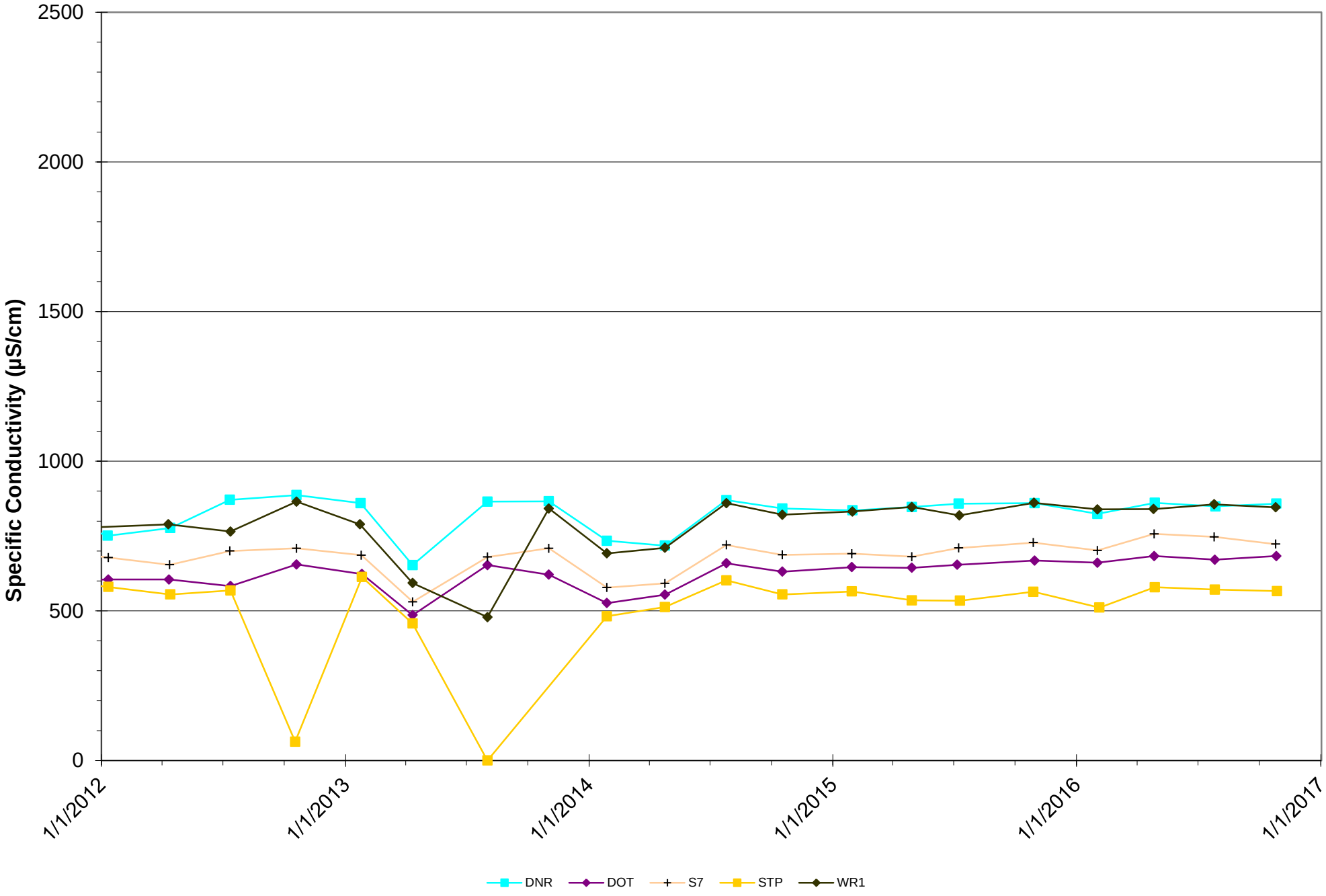



Specific Conductivity Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington
Specific Conductivity (µS/cm)
2500
2000
1500
1000
500
0
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
C1S
E1D
E1S
E2S
N1SR
N2S
N3S
NE1S
S10S
S11S
SE1D
SE1S
E4S

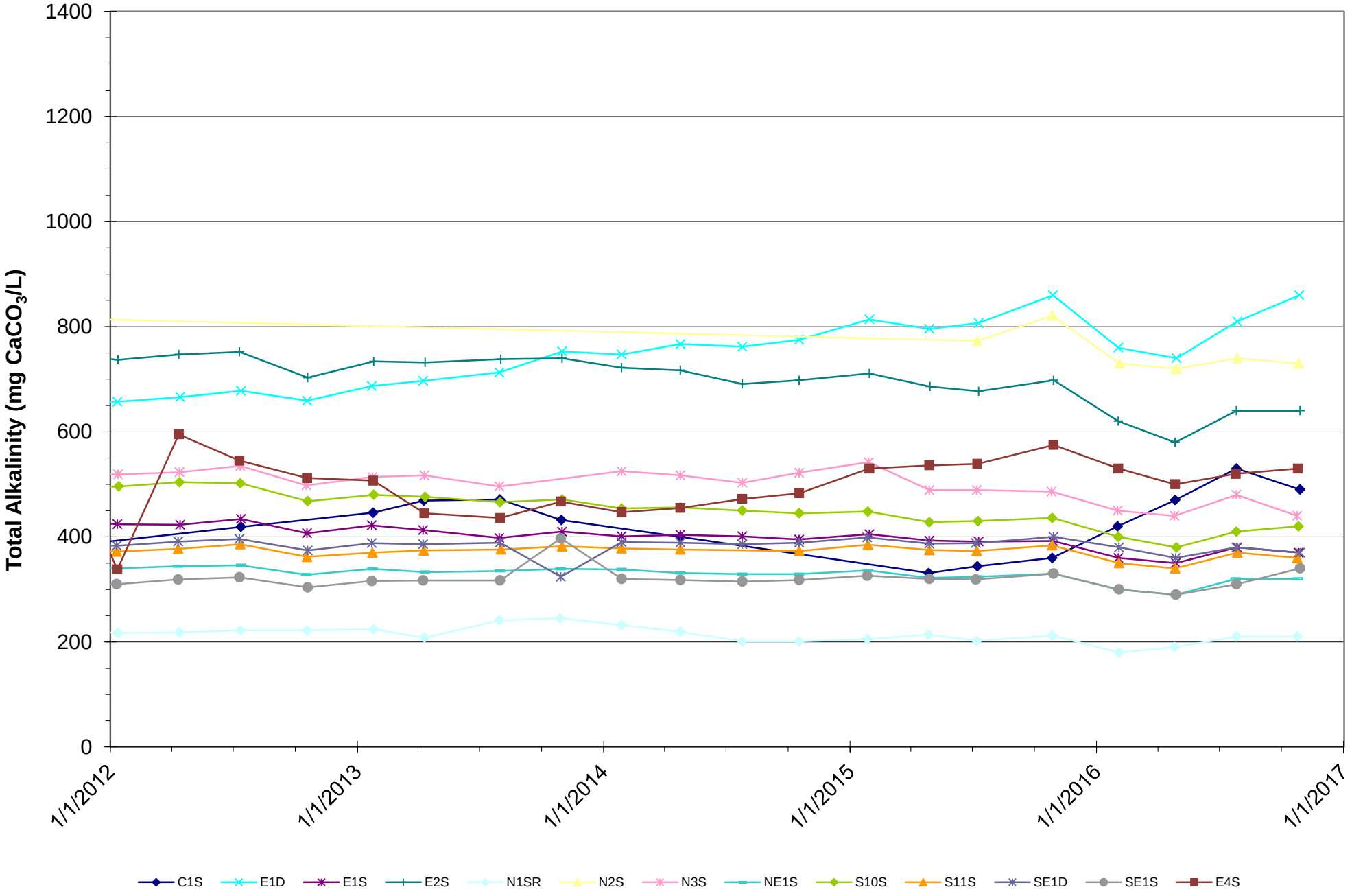
Specific Conductivity Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



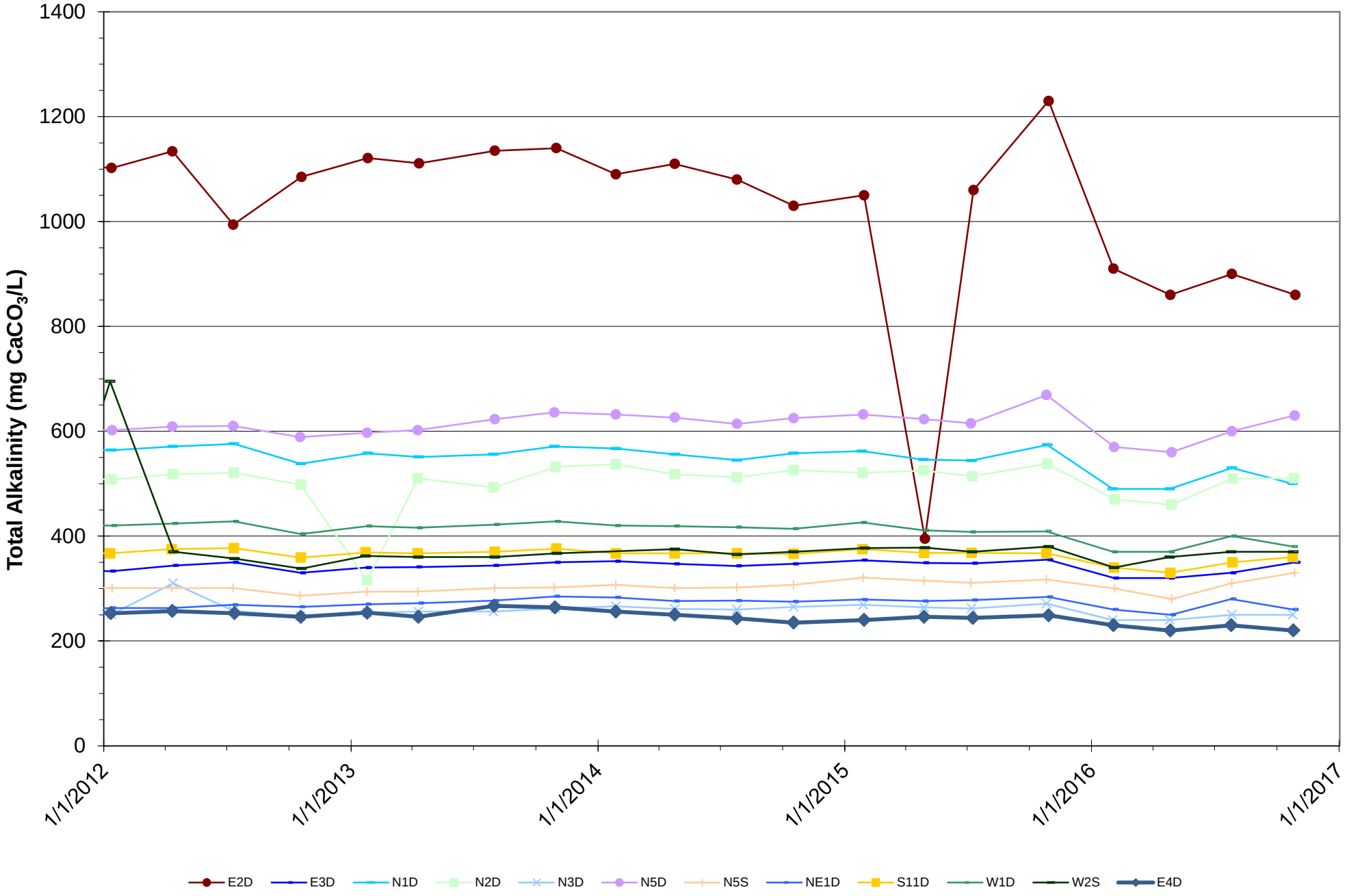
Specific Conductivity Time Series - Pumping Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



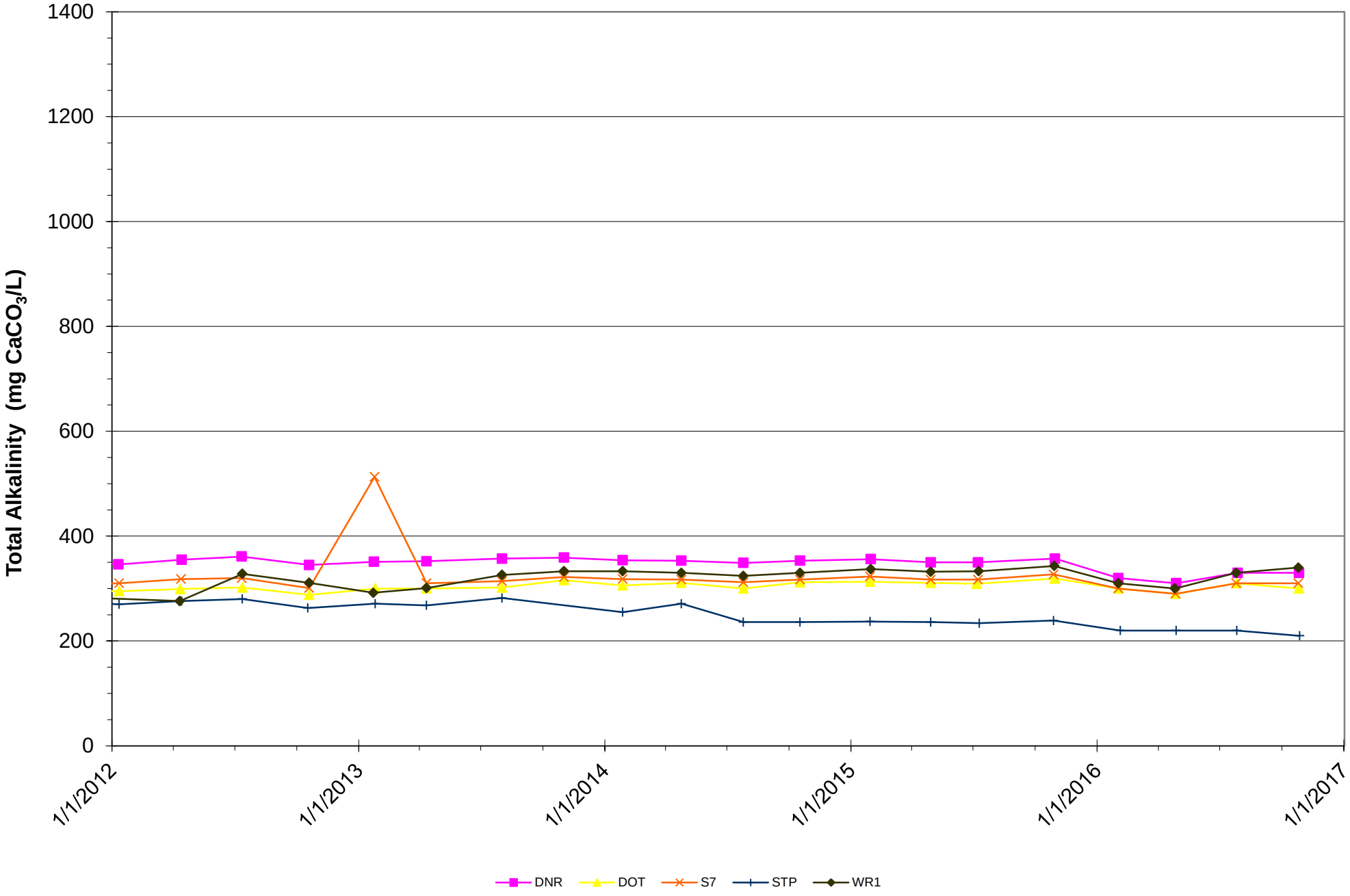
Alkalinity Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



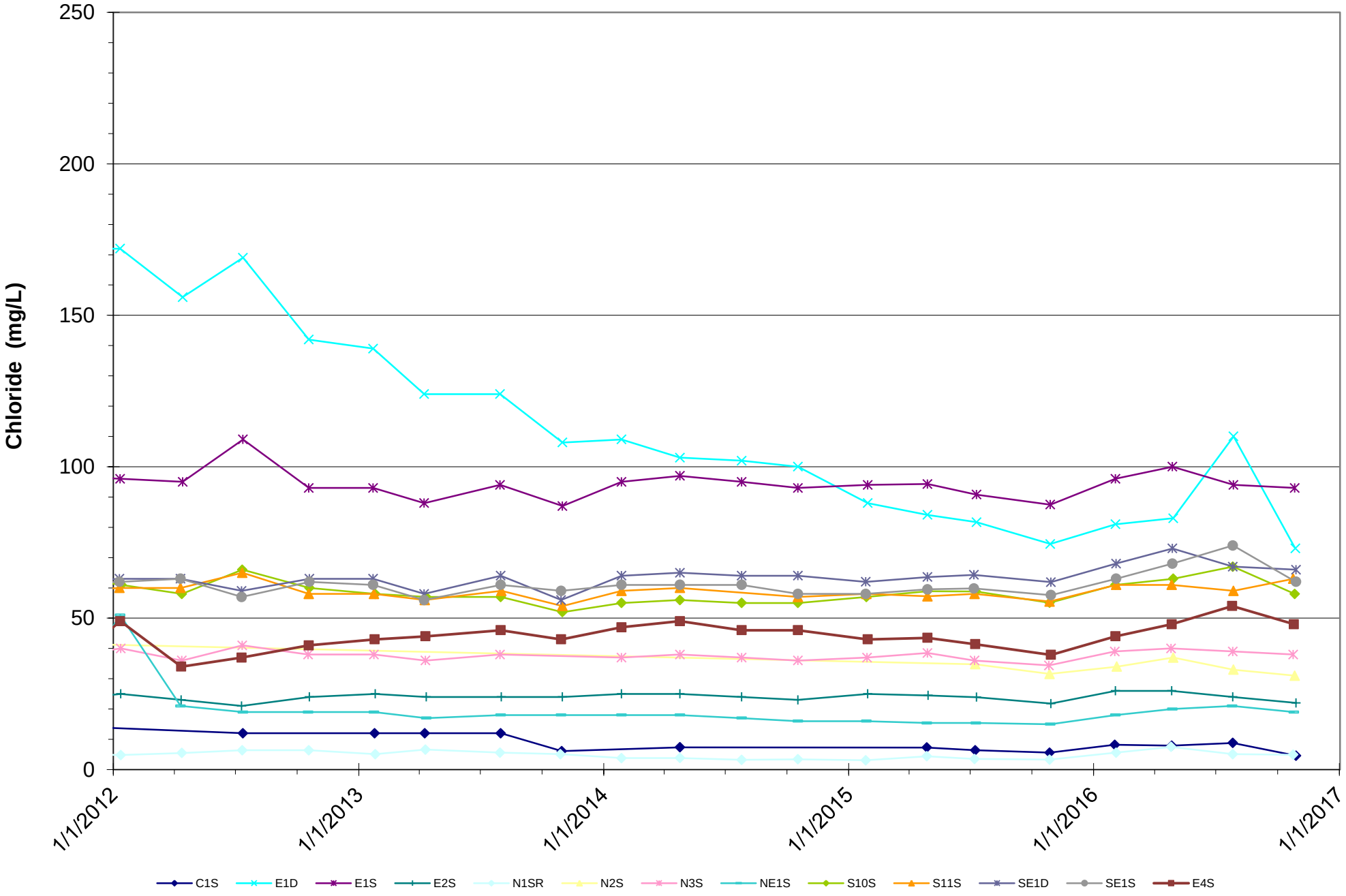
Alkalinity Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



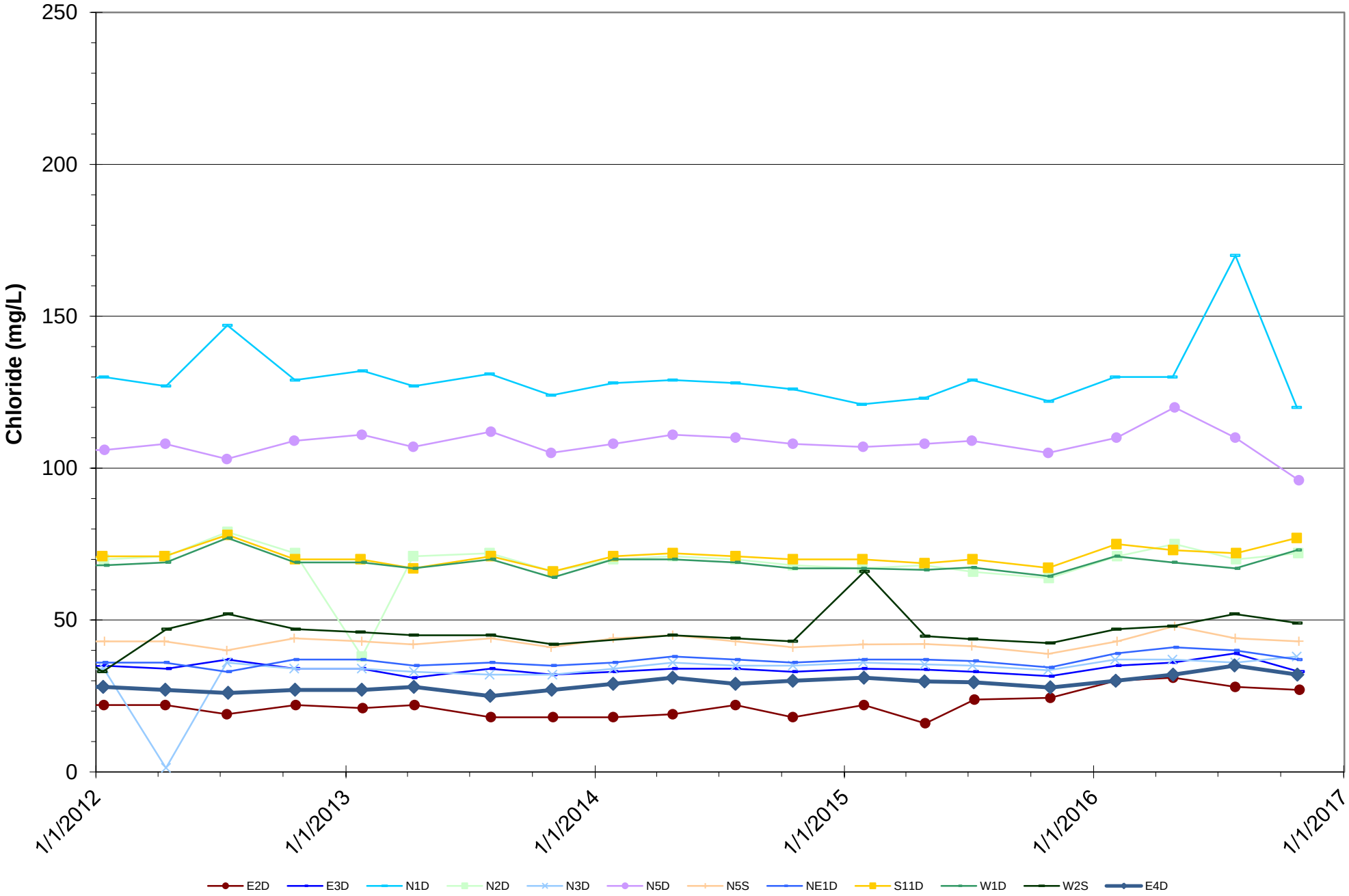
Total Alkalinity Time Series - Water Supply Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

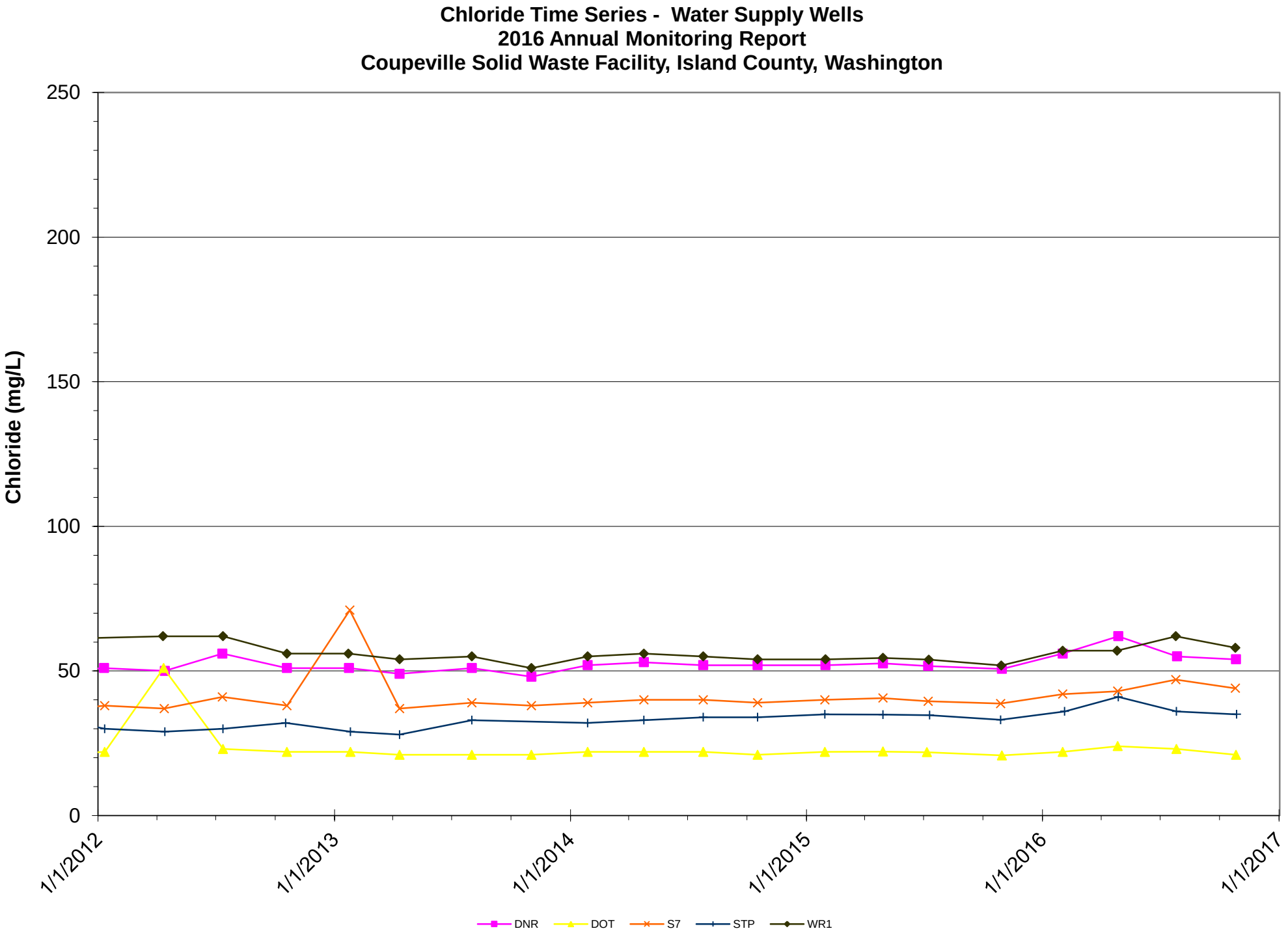


Chloride Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

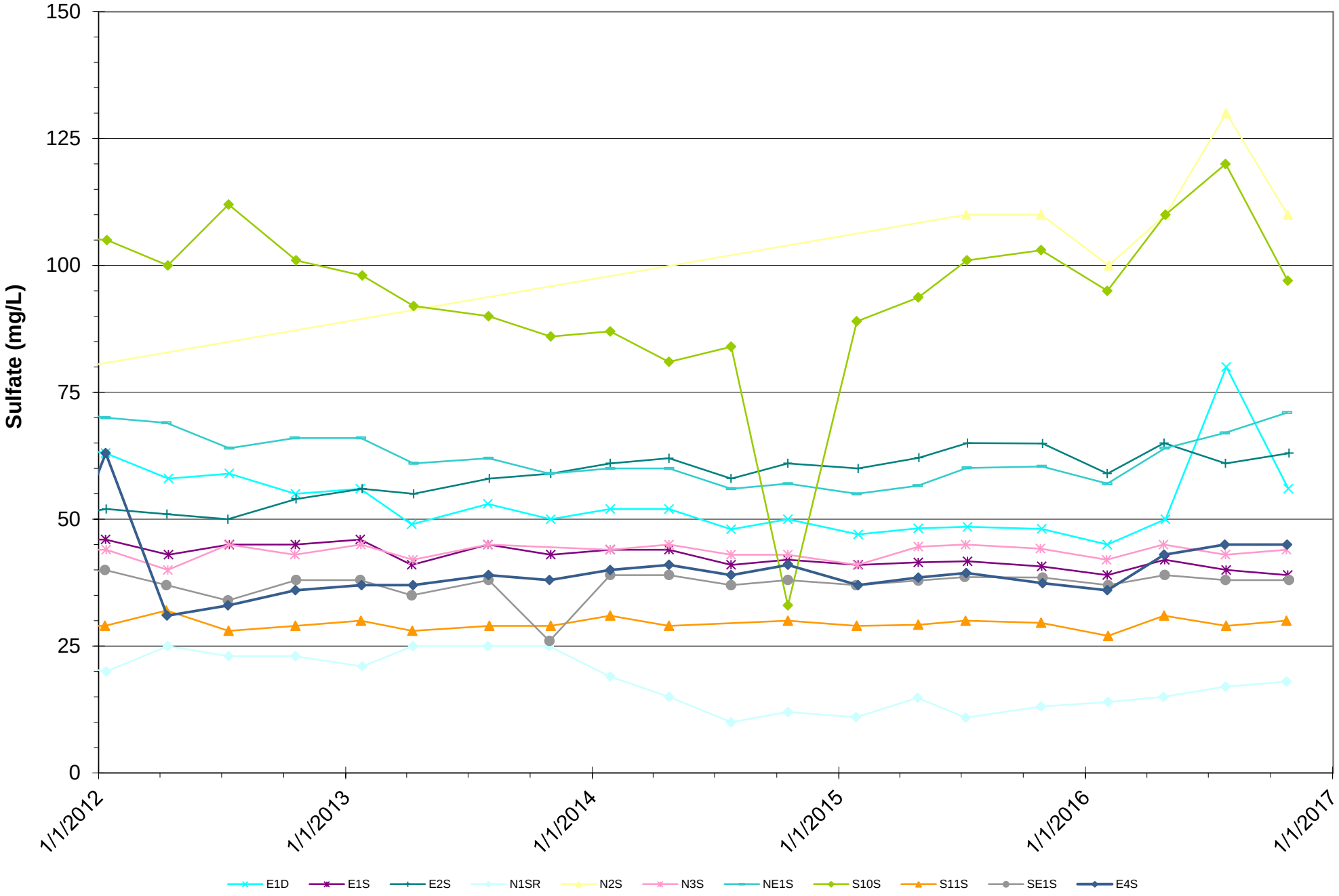


Chloride Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

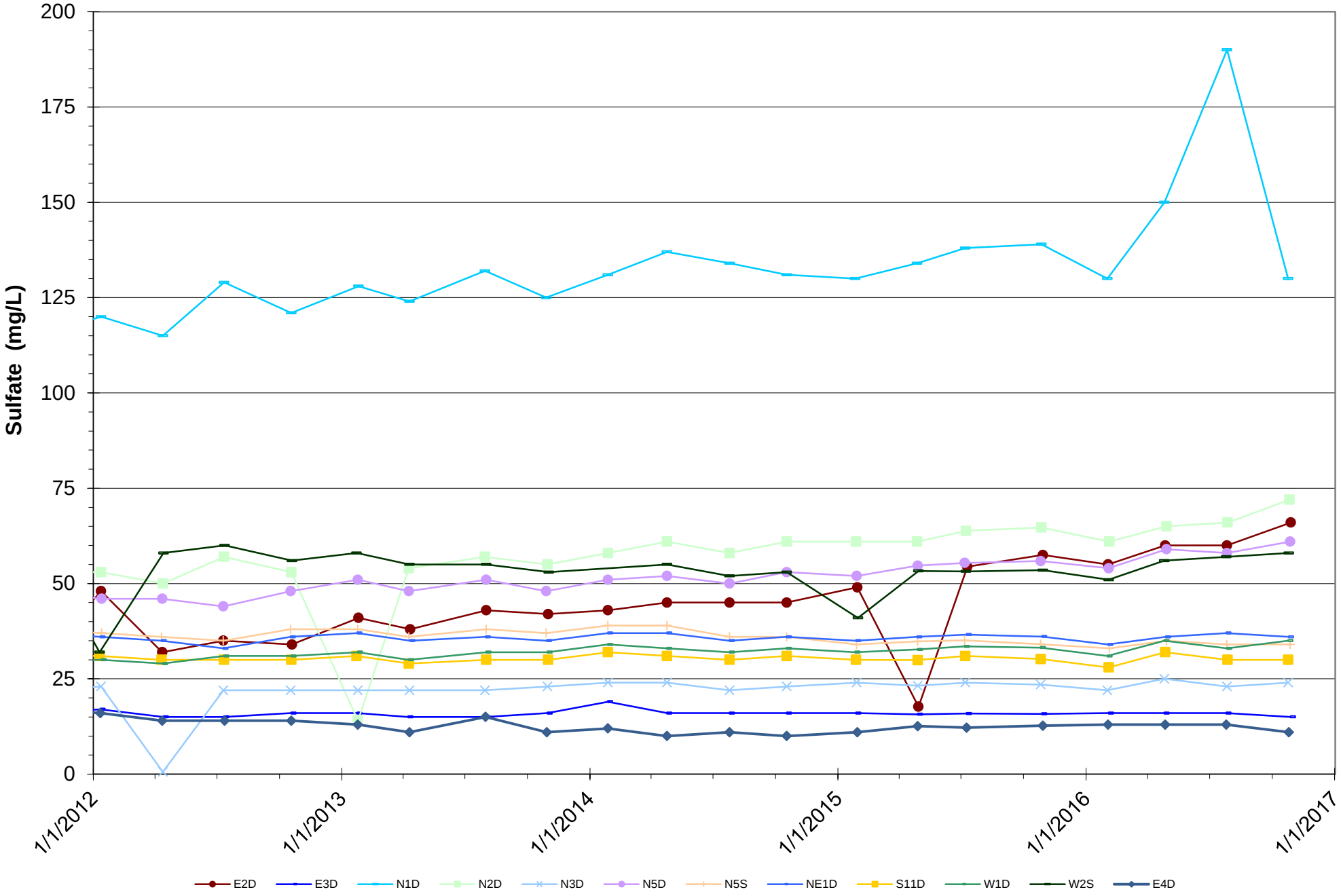



Chloride Time Series - Water Supply Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington
Chloride (mg/L)
250
200
150
100
50
0
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
DNR
DOT
S7
STP
WR1

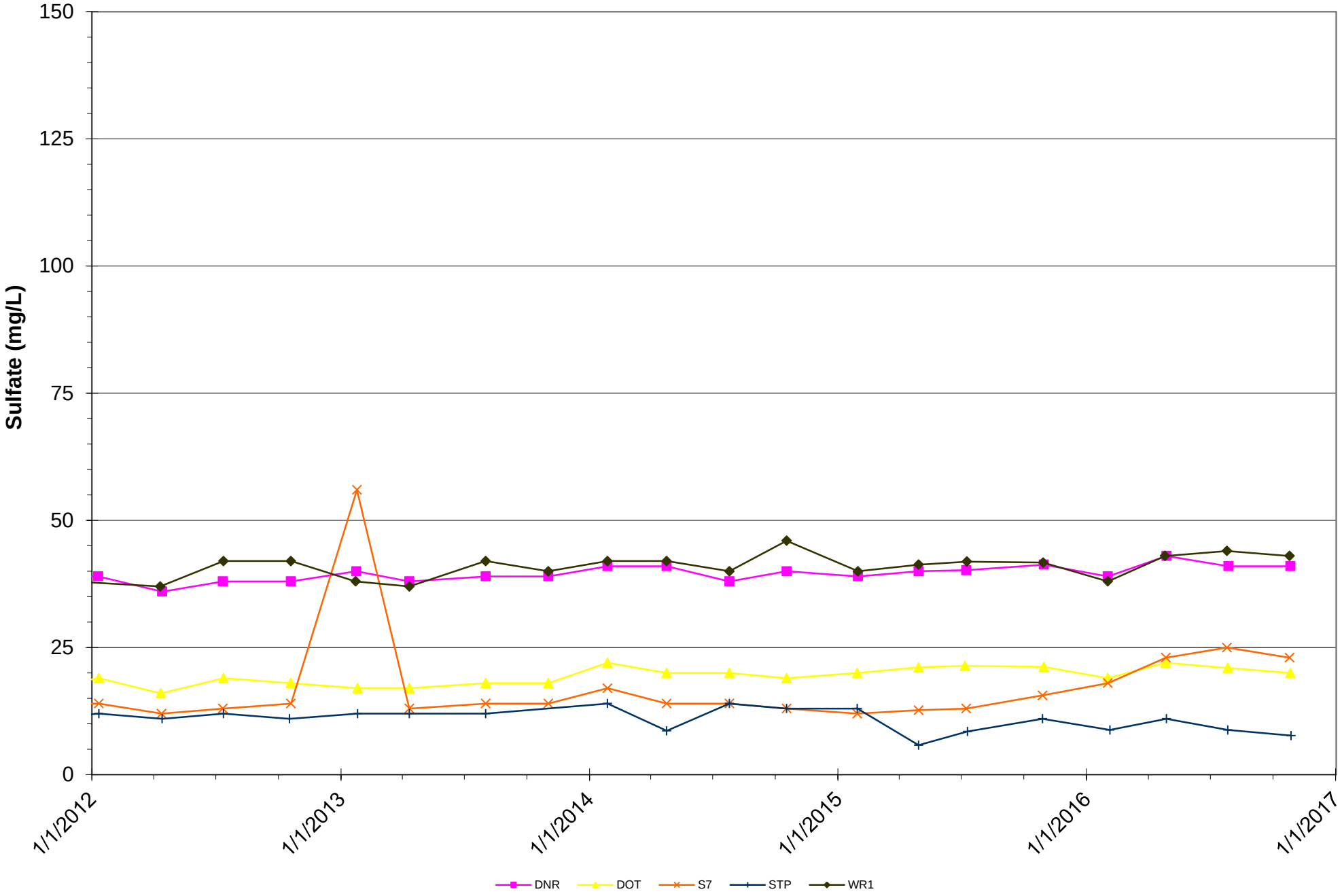
Sulfate Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

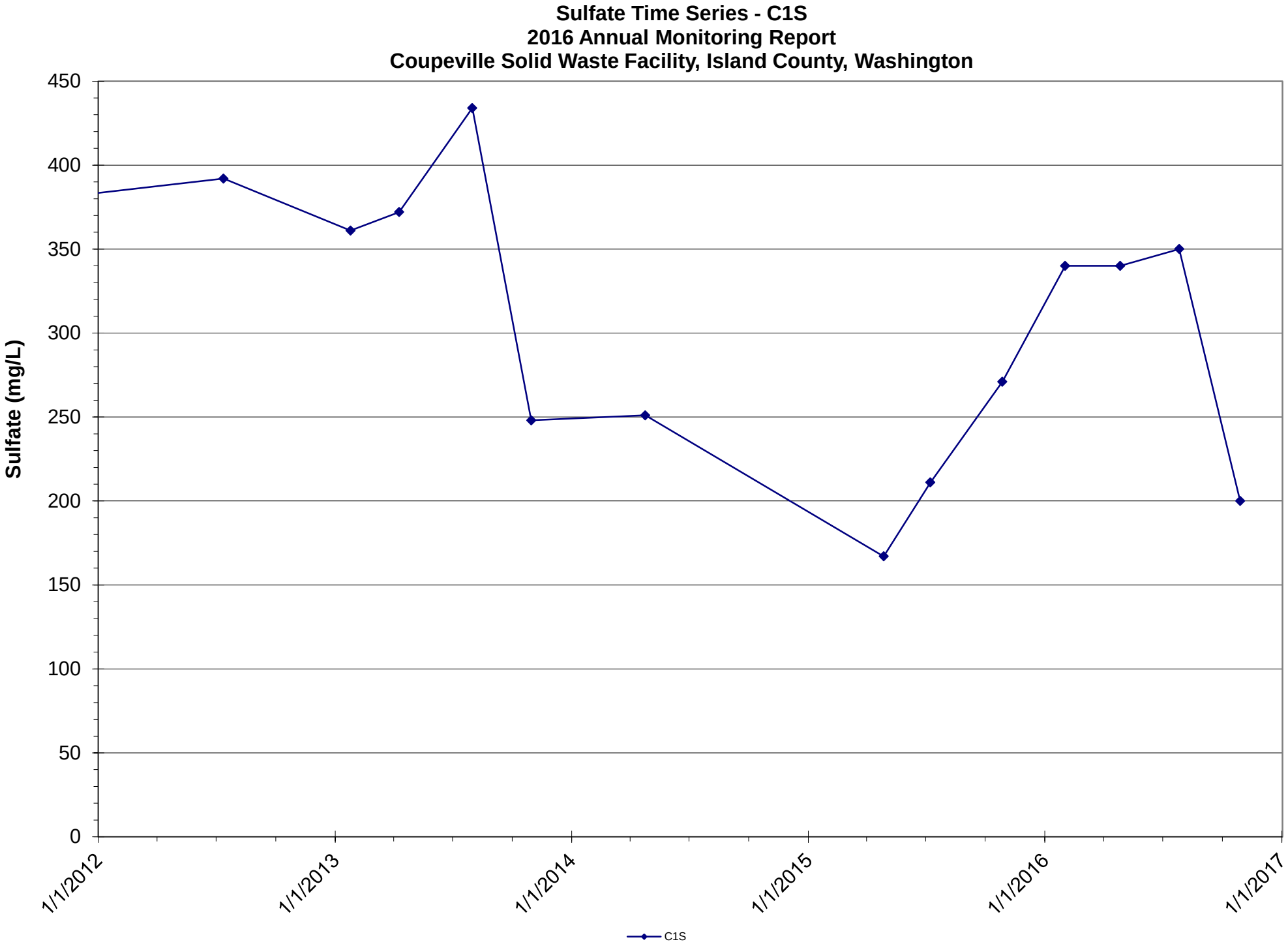


Sulfate Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

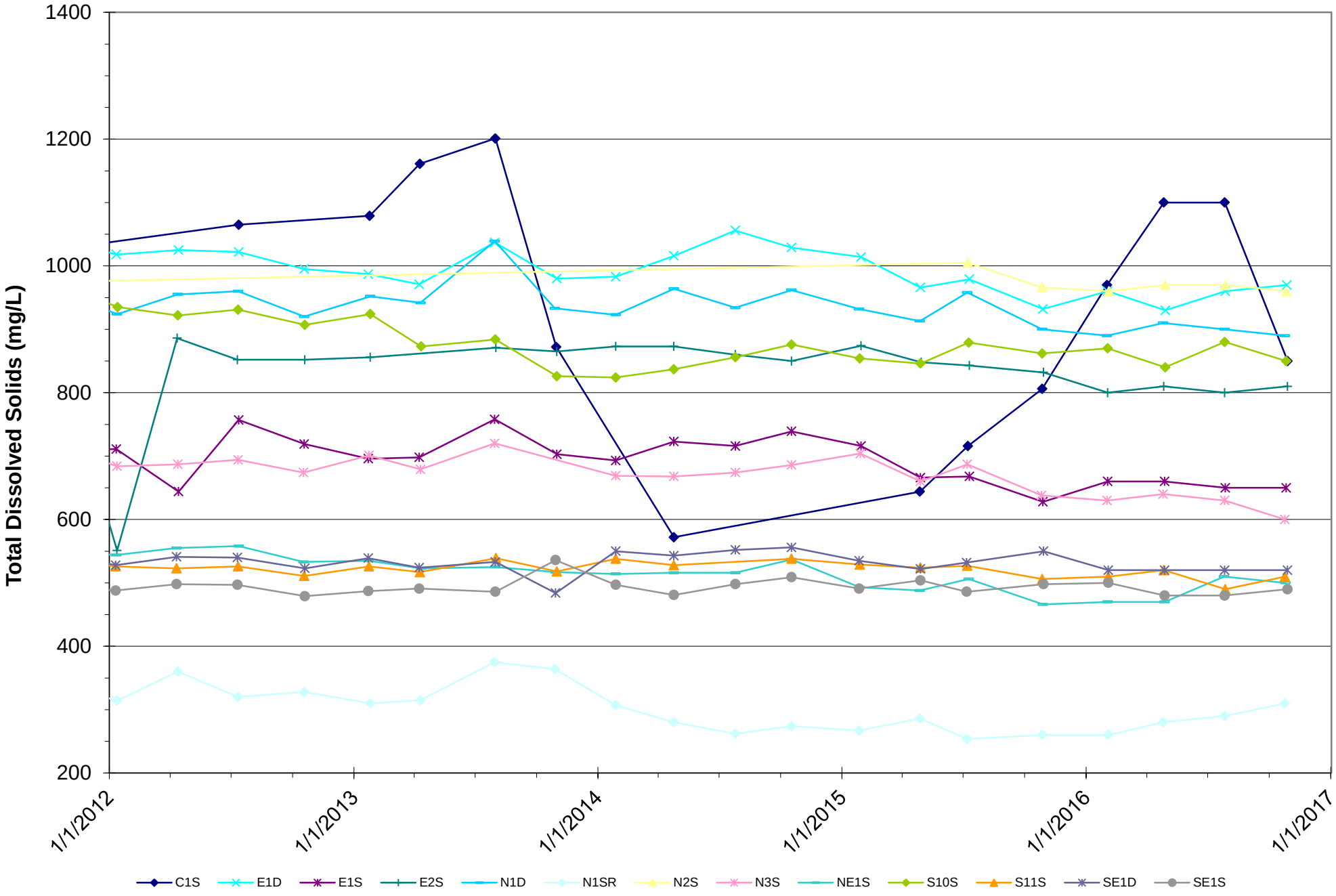


Sulfate Time Series - Water Supply Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

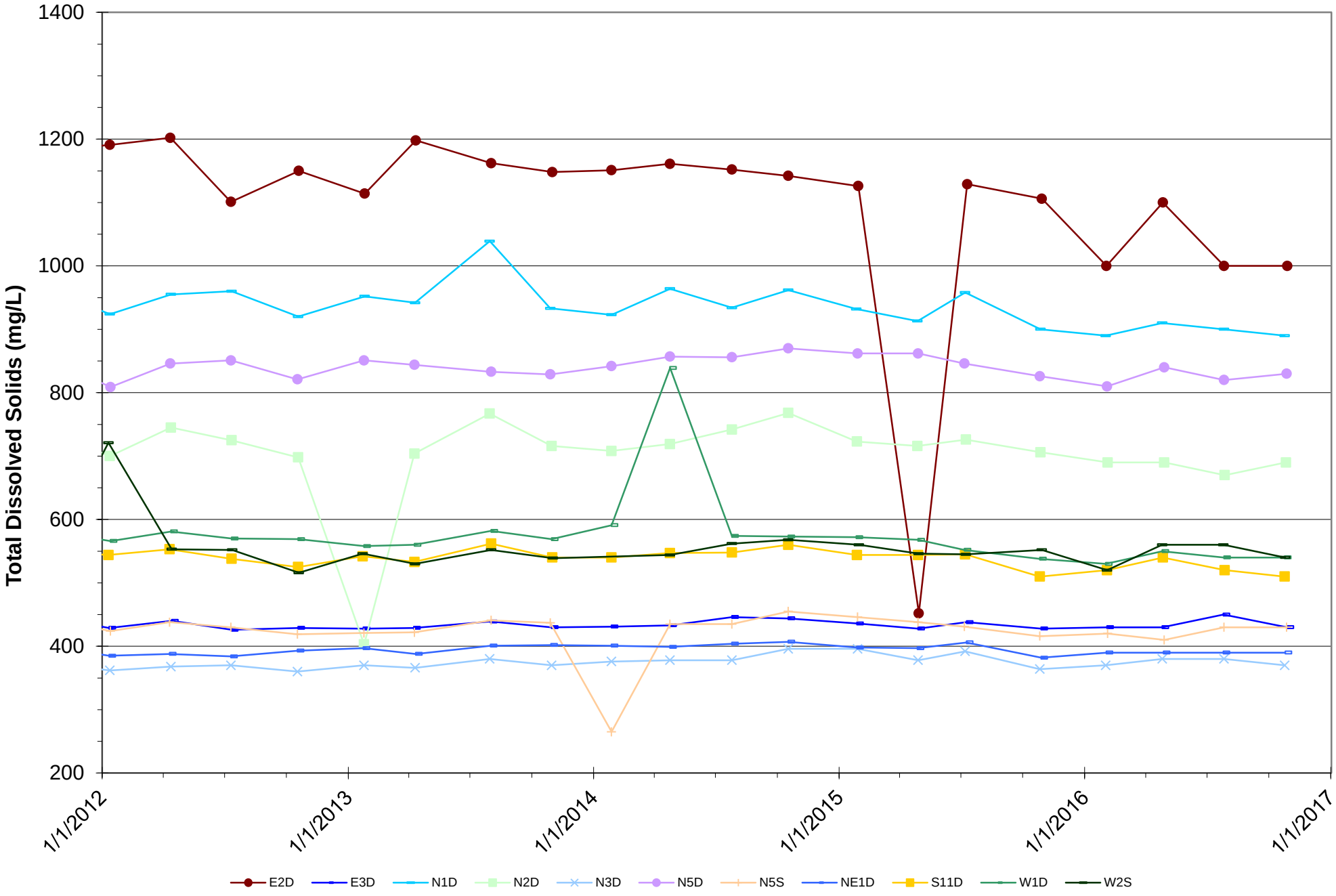


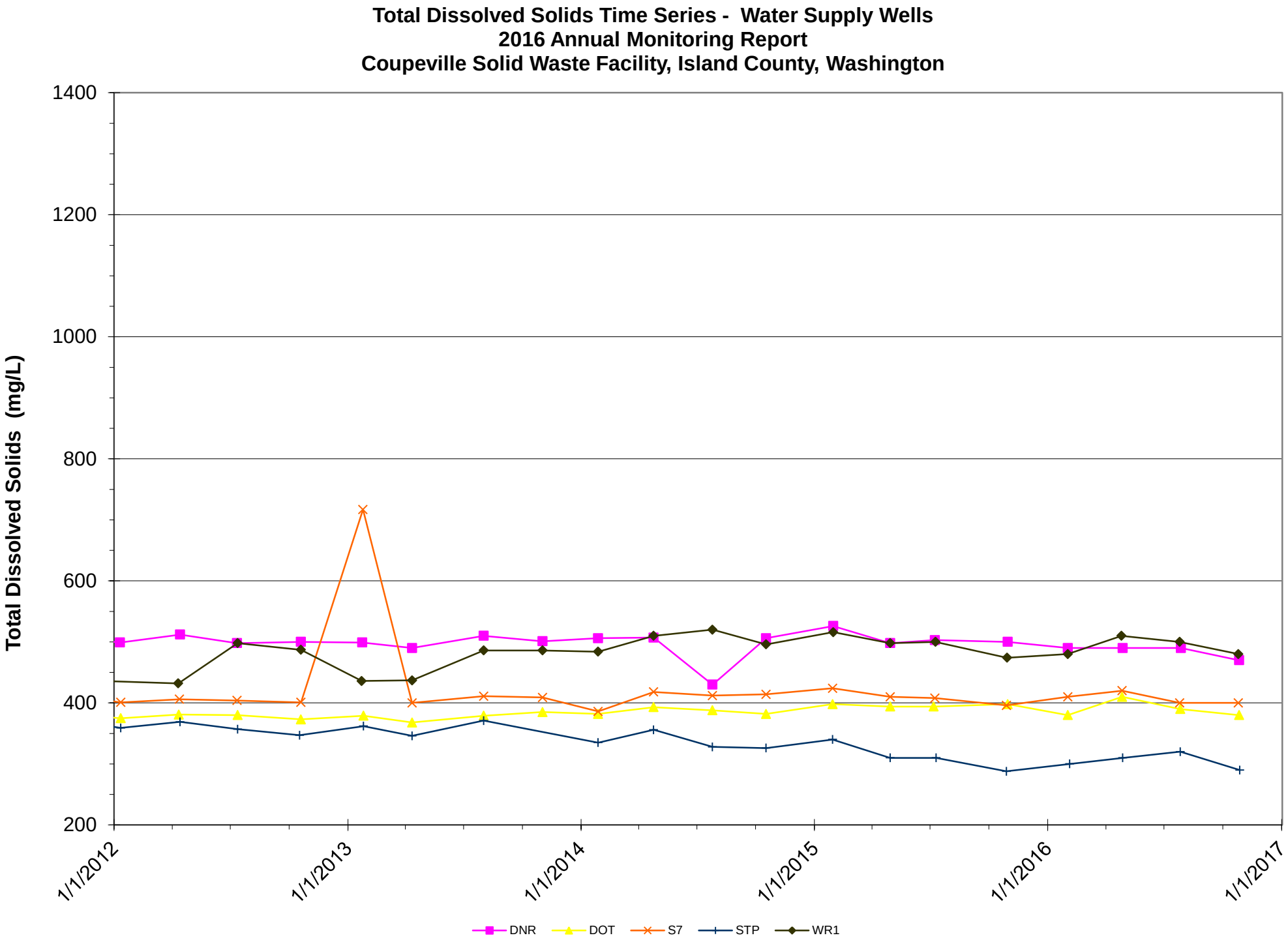

Sulfate Time Series - C1S
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington
Sulfate (mg/L)
450
400
350
300
250
200
150
100
50
0
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
C1S

Total Dissolved Solids Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

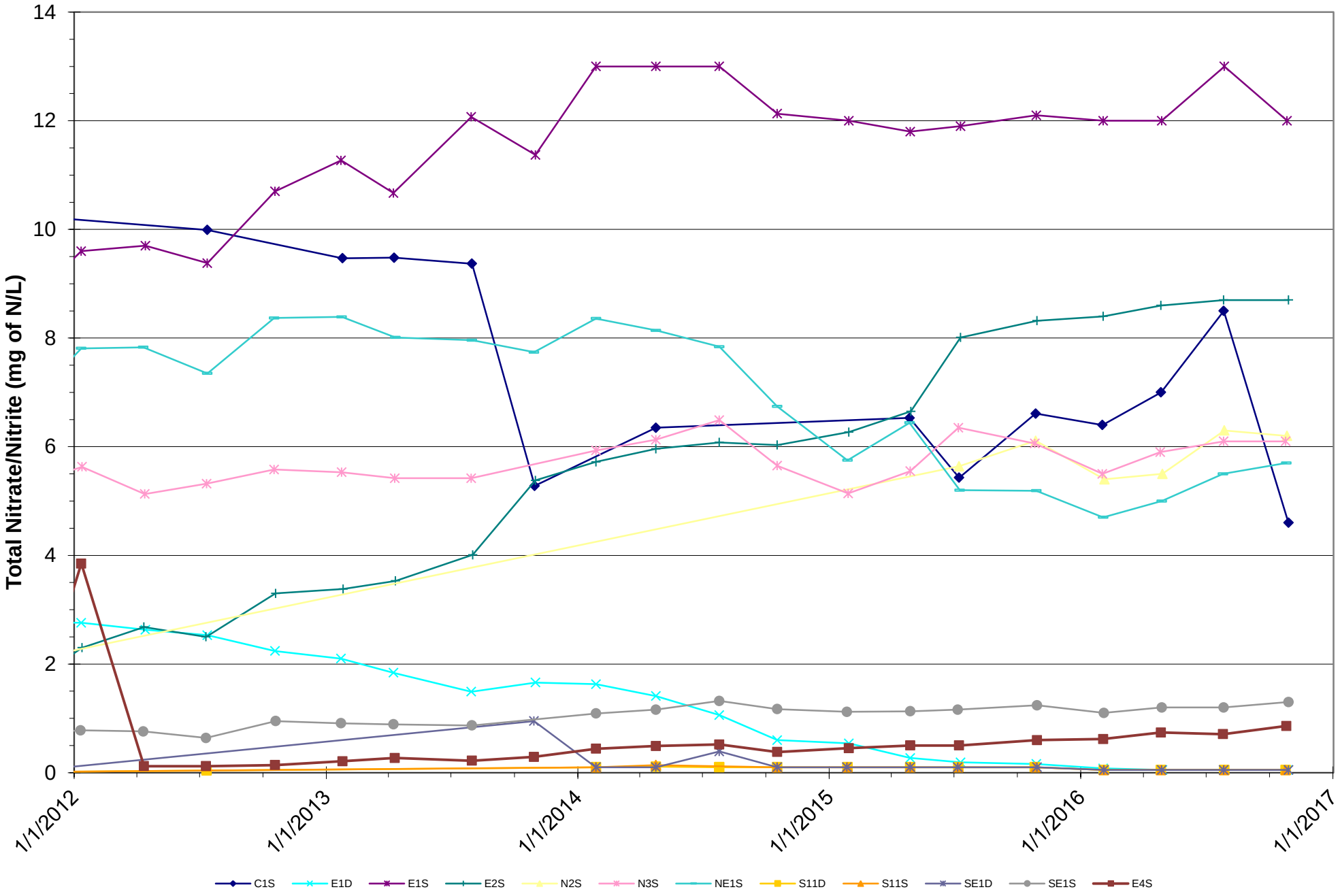


Total Dissolved Solids Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

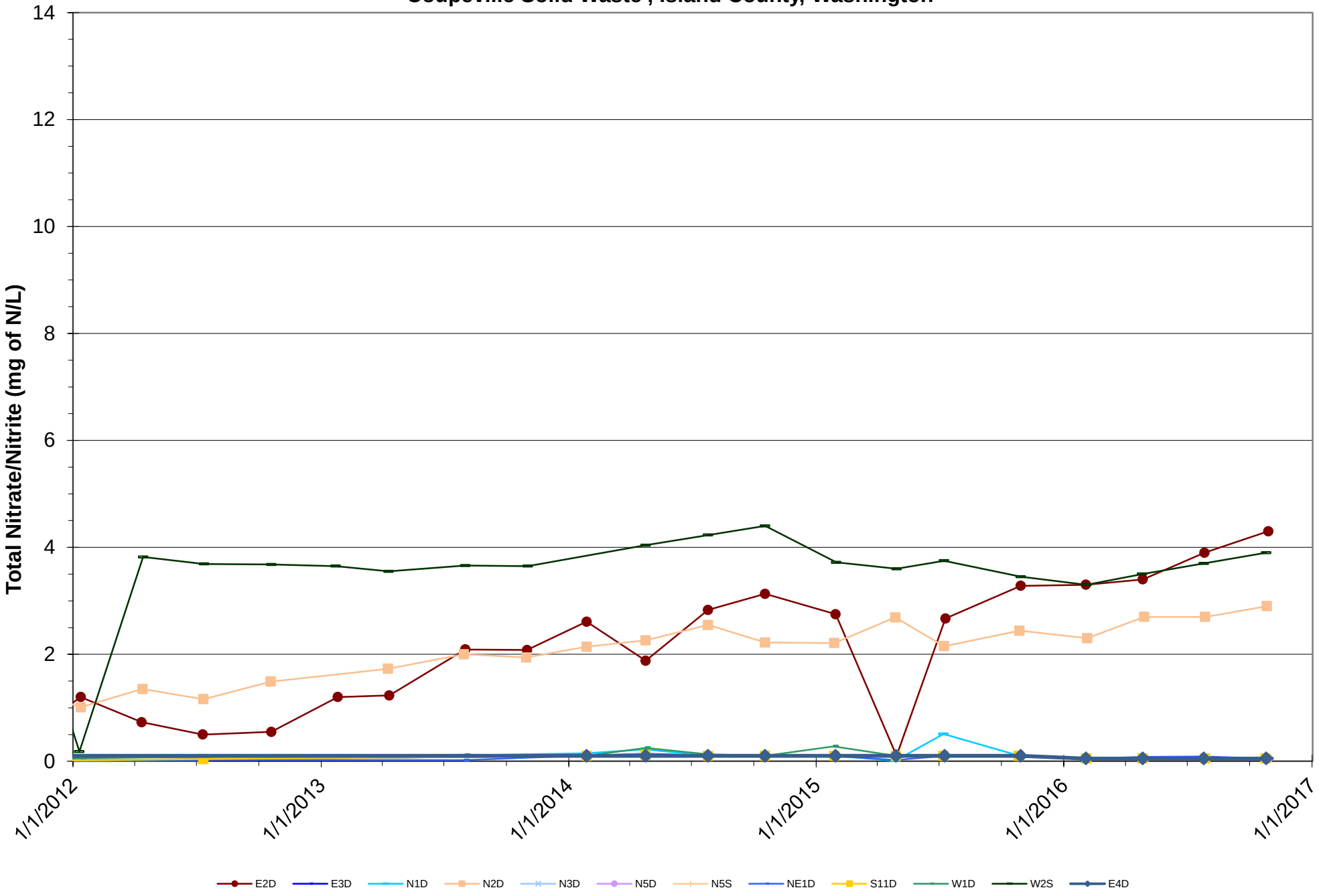



Total Dissolved Solids Time Series - Water Supply Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington
Total Dissolved Solids (mg/L)
1400
1200
1000
800
600
400
200
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
DNR
DOT
S7
STP
WR1

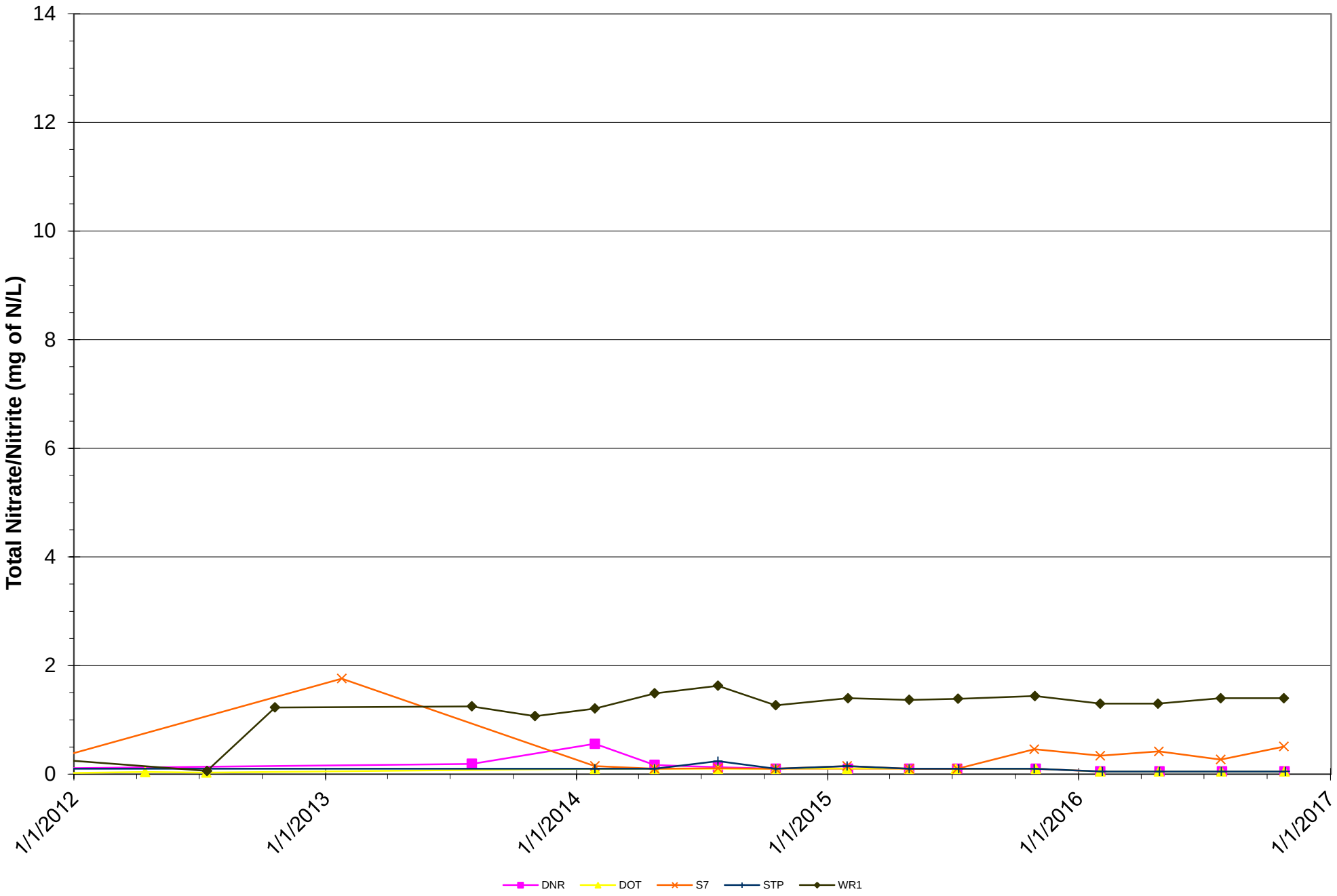
Total Nitrate/Nitrite Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

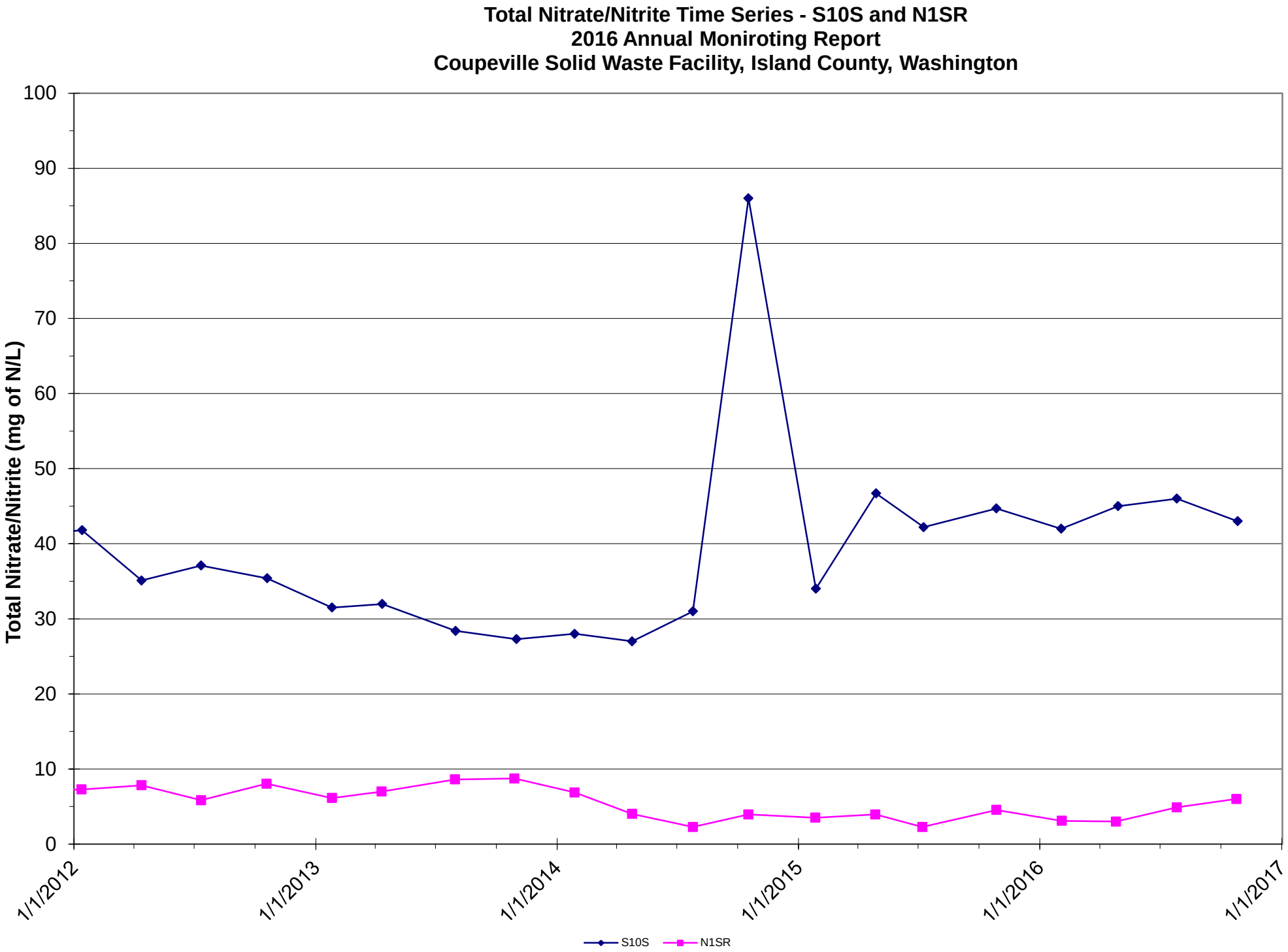


Total Nitrate/Nitrite Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste , Island County, Washington

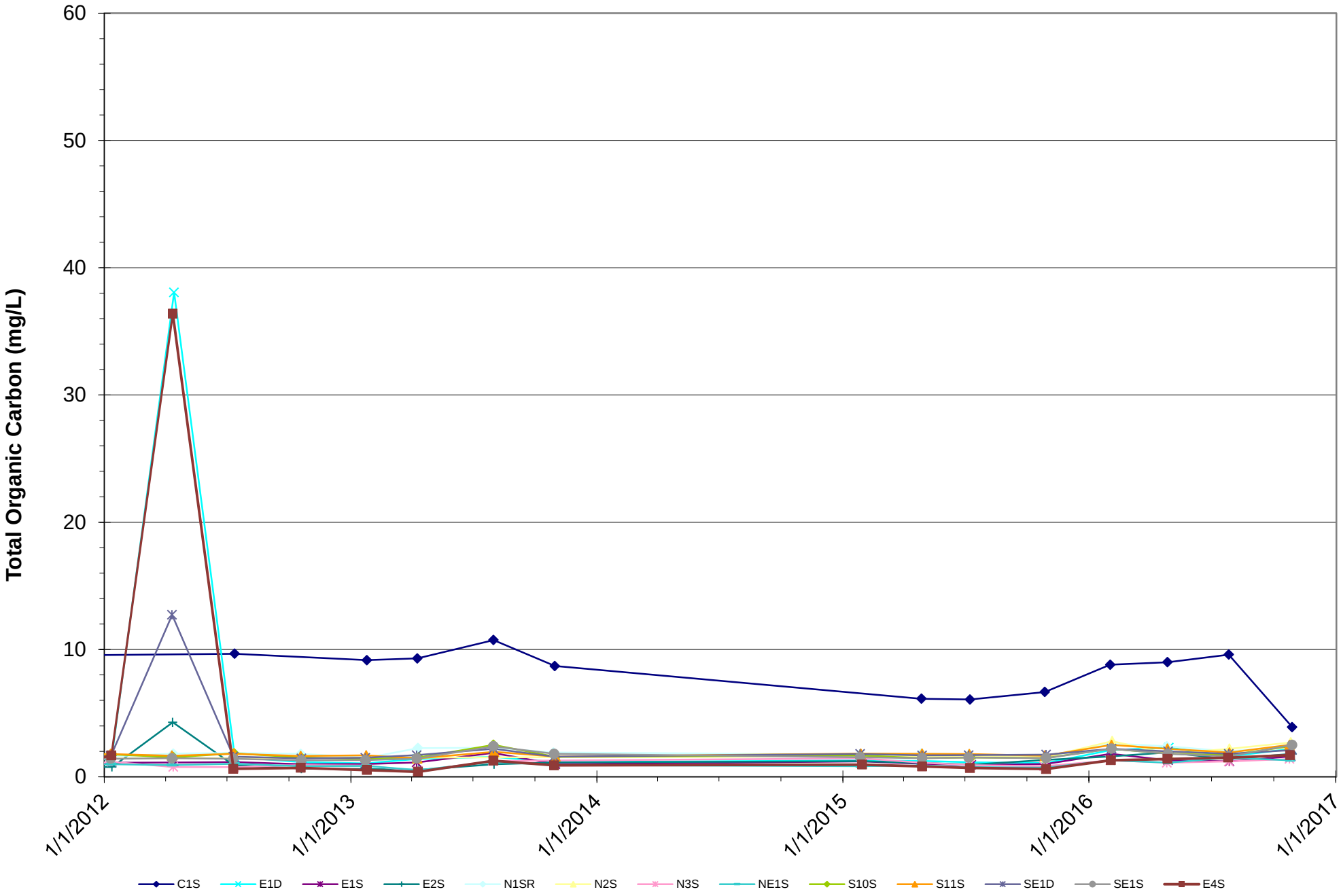


Total Nitrate/Nitrite Time Series - Water Supply Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

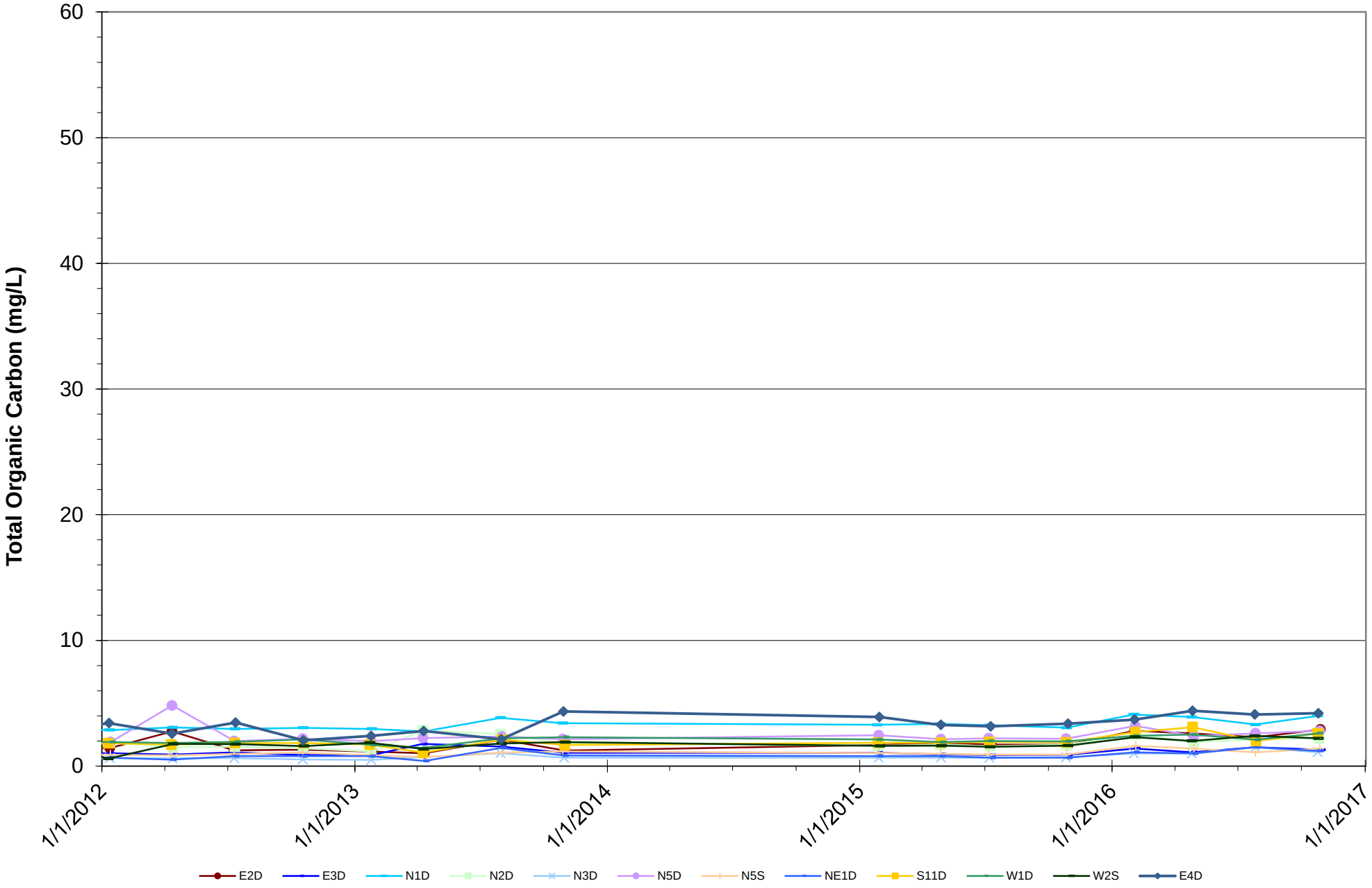



Total Nitrate/Nitrite Time Series - S10S and N1SR
2016 Annual Moniroting Report
Coupeville Solid Waste Facility, Island County, Washington
Total Nitrate/Nitrite (mg of N/L)
100
90
80
70
60
50
40
30
20
10
0
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
S10S
N1SR

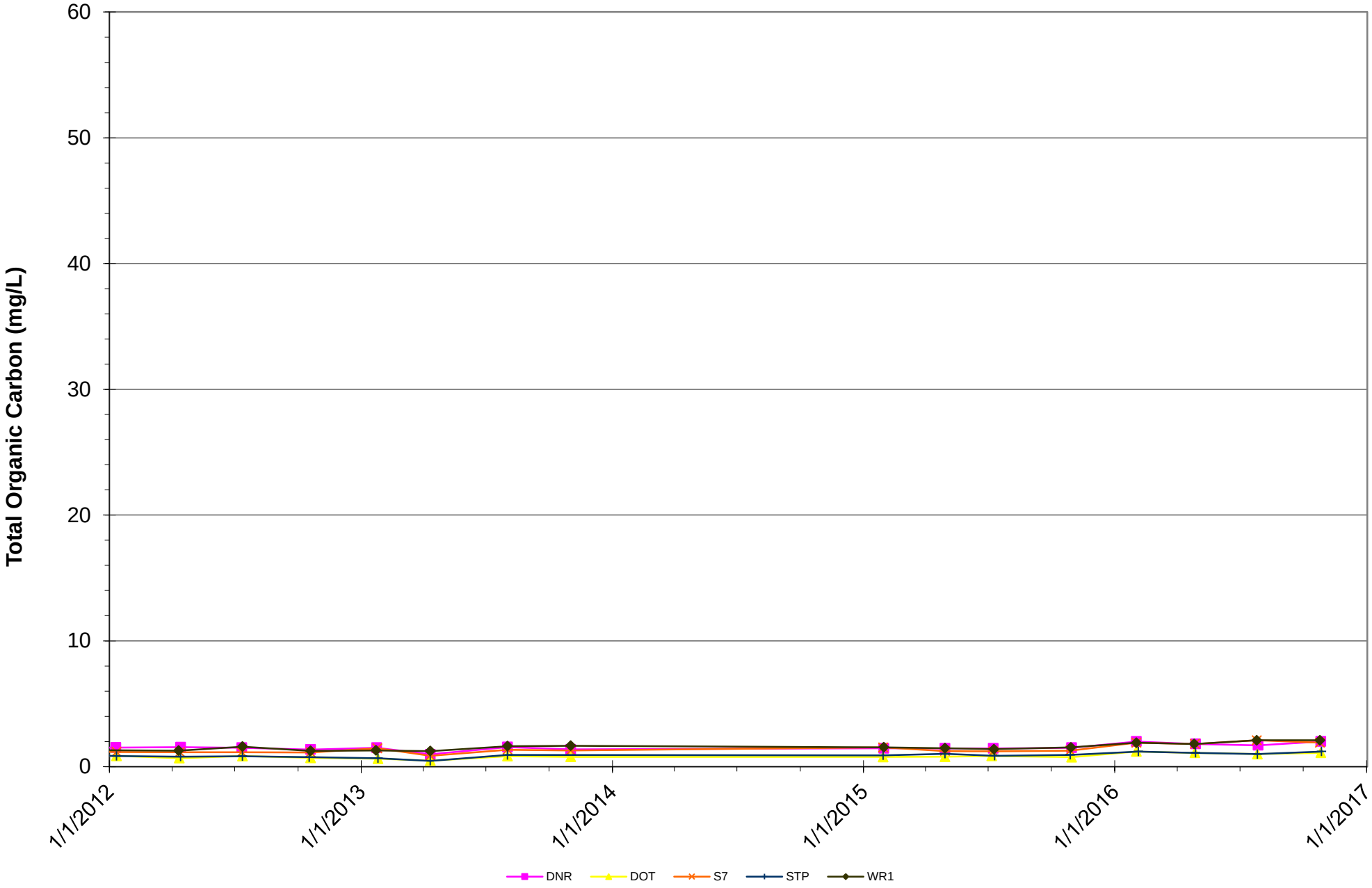
Total Organic Carbon Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



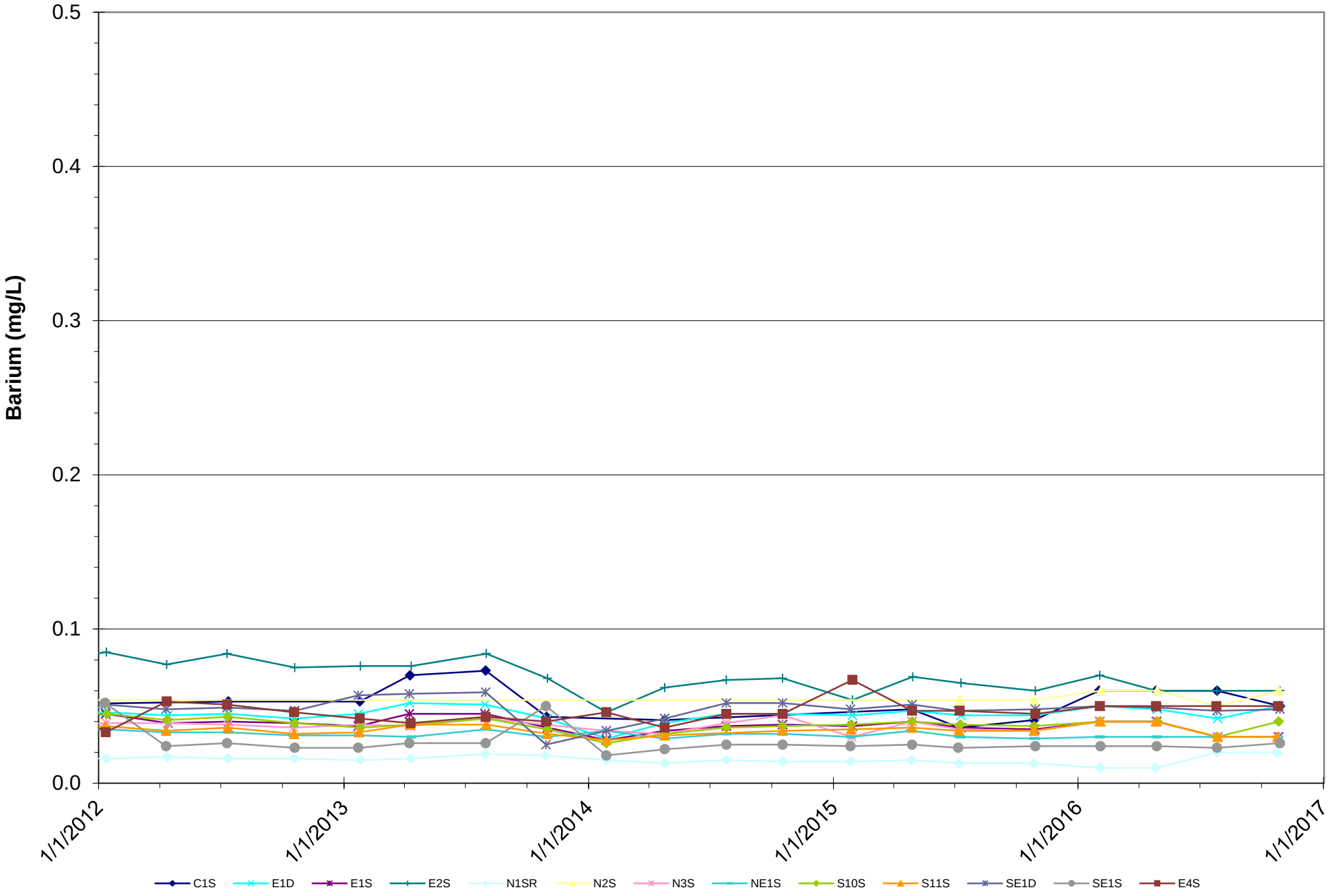
Total Organic Carbon Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



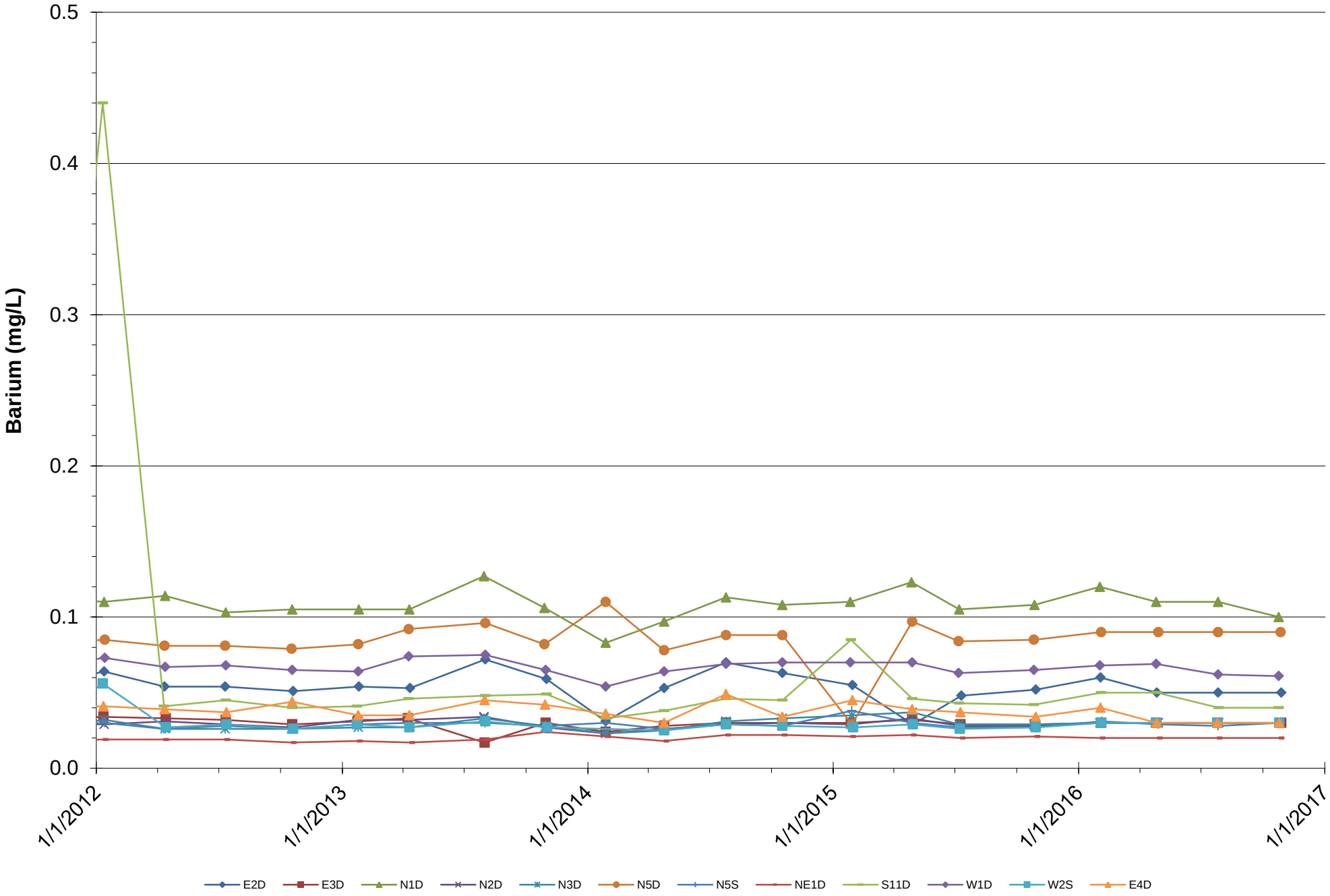
Total Organic Carbon Time Series - Water Supply Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



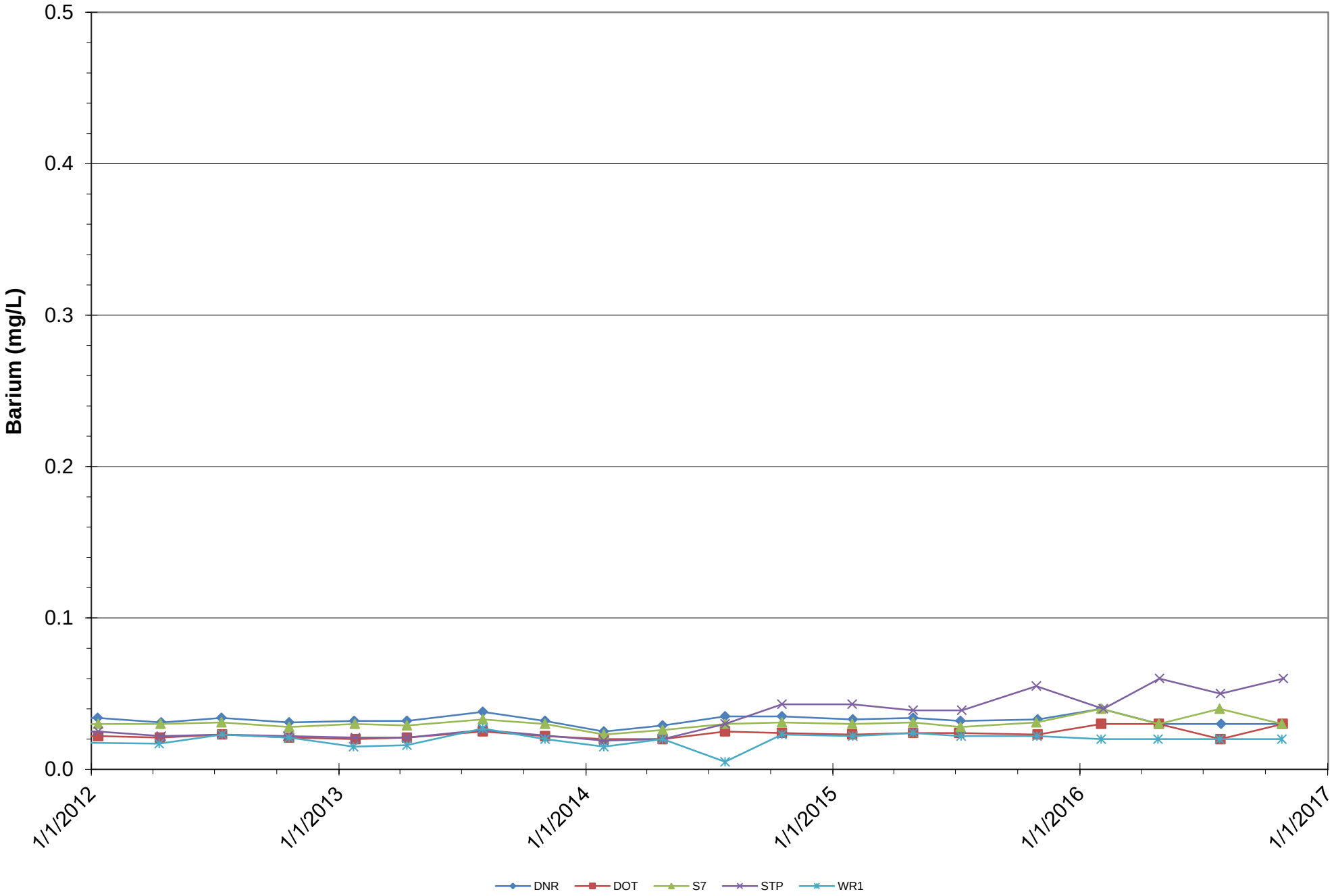
Barium Time Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



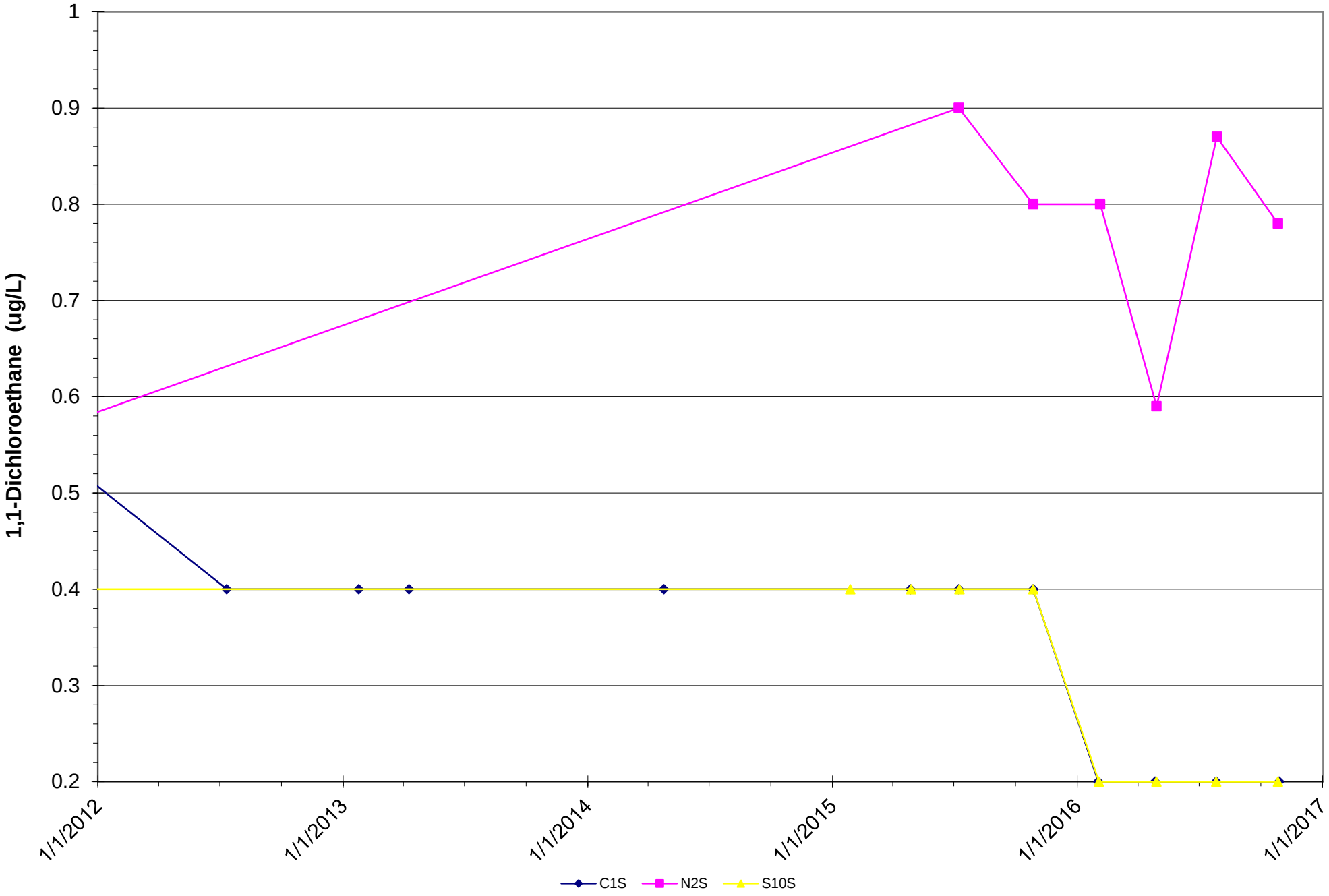
Barium Time Series - Aquifer 2
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

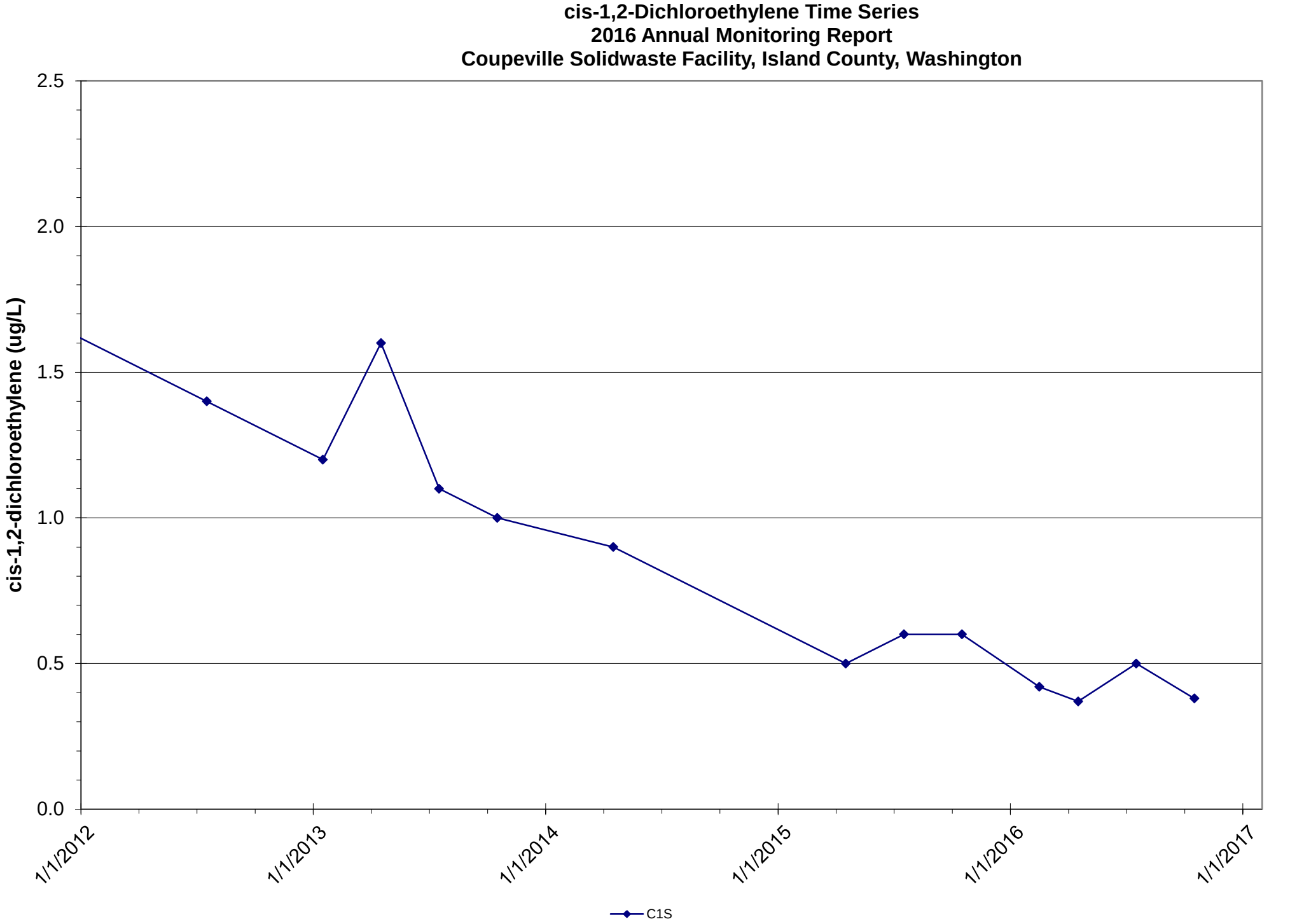


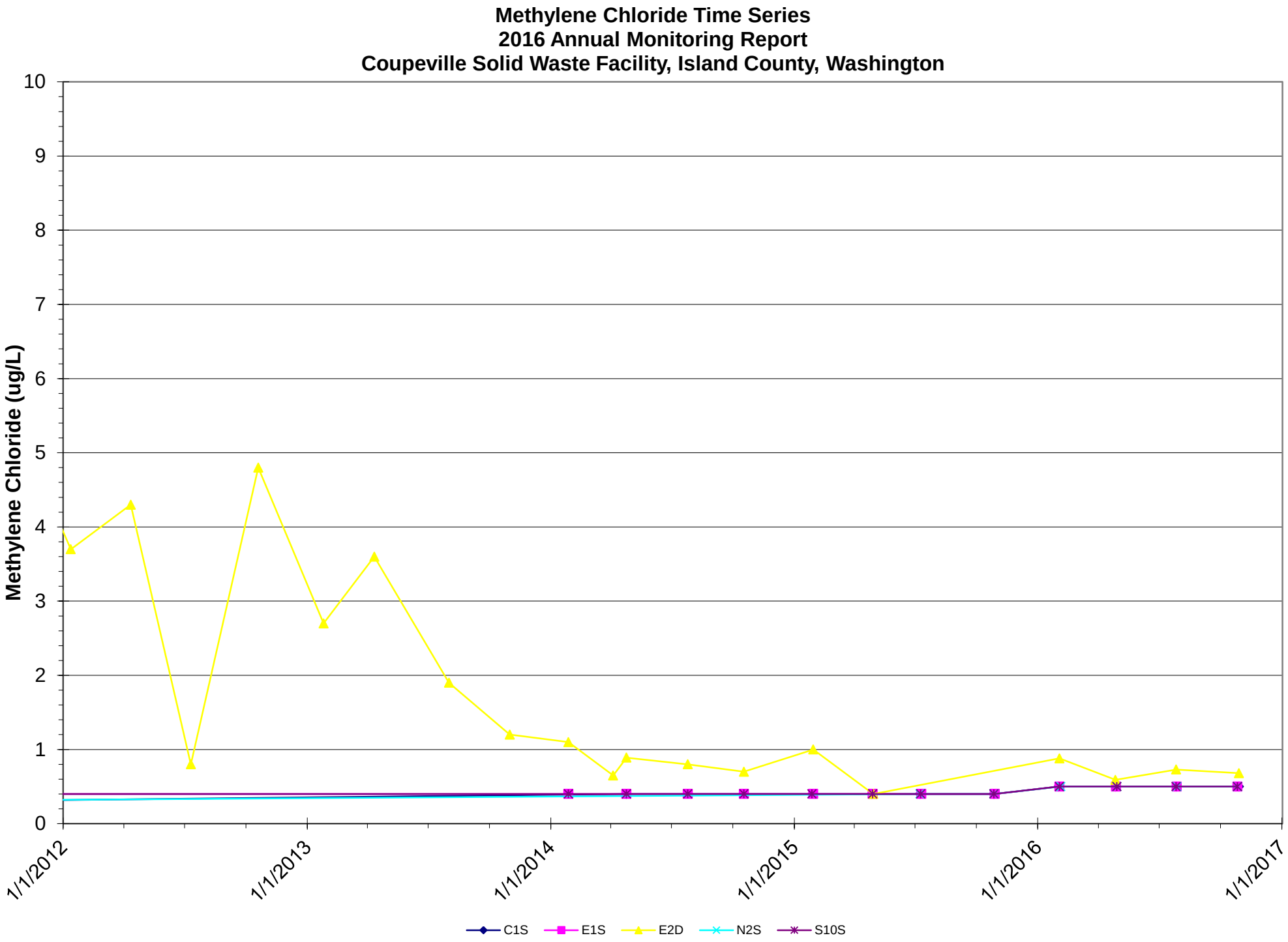
Barium Time Series - Pumping Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



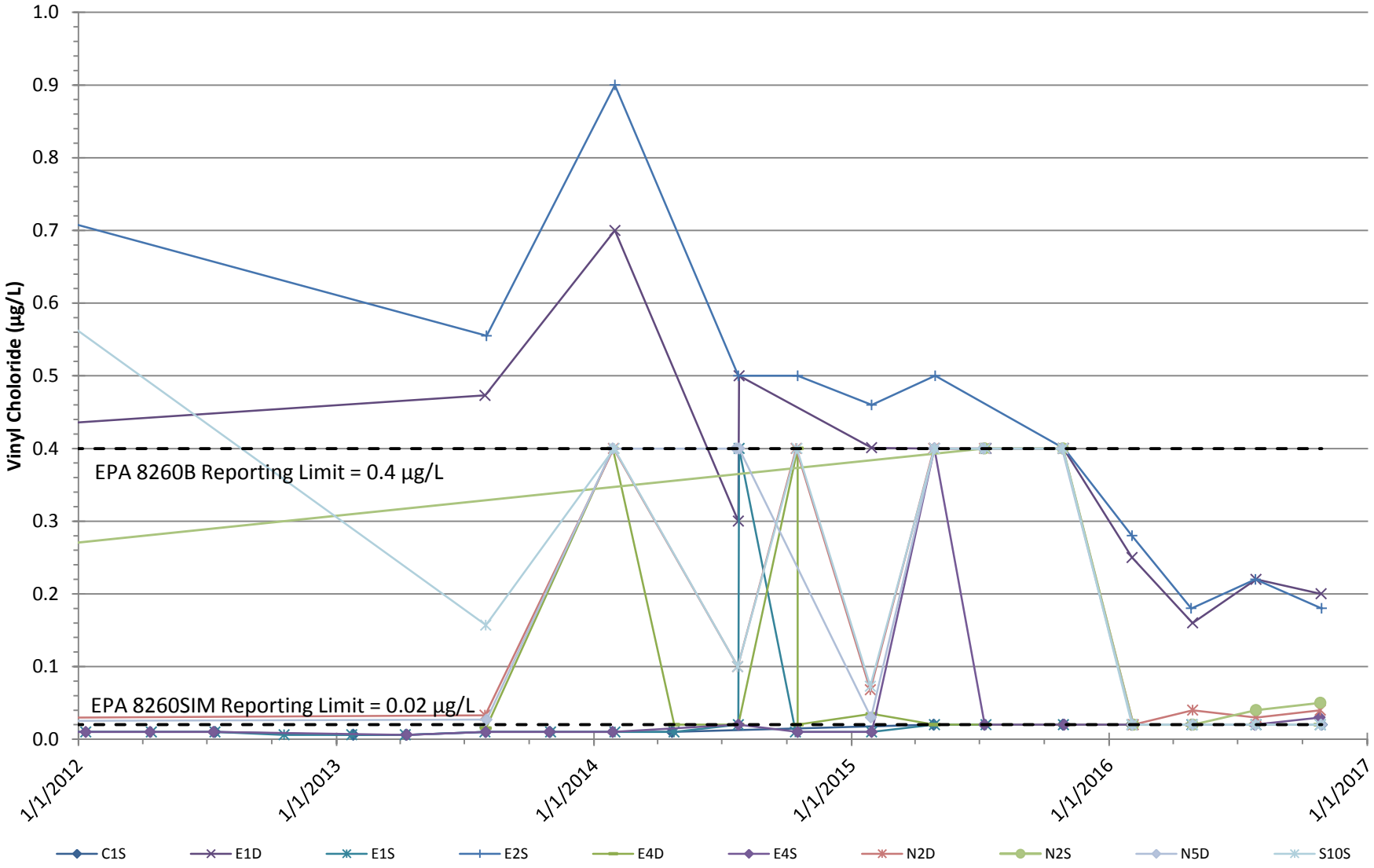
1,1-Dichloroethane Time Series
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



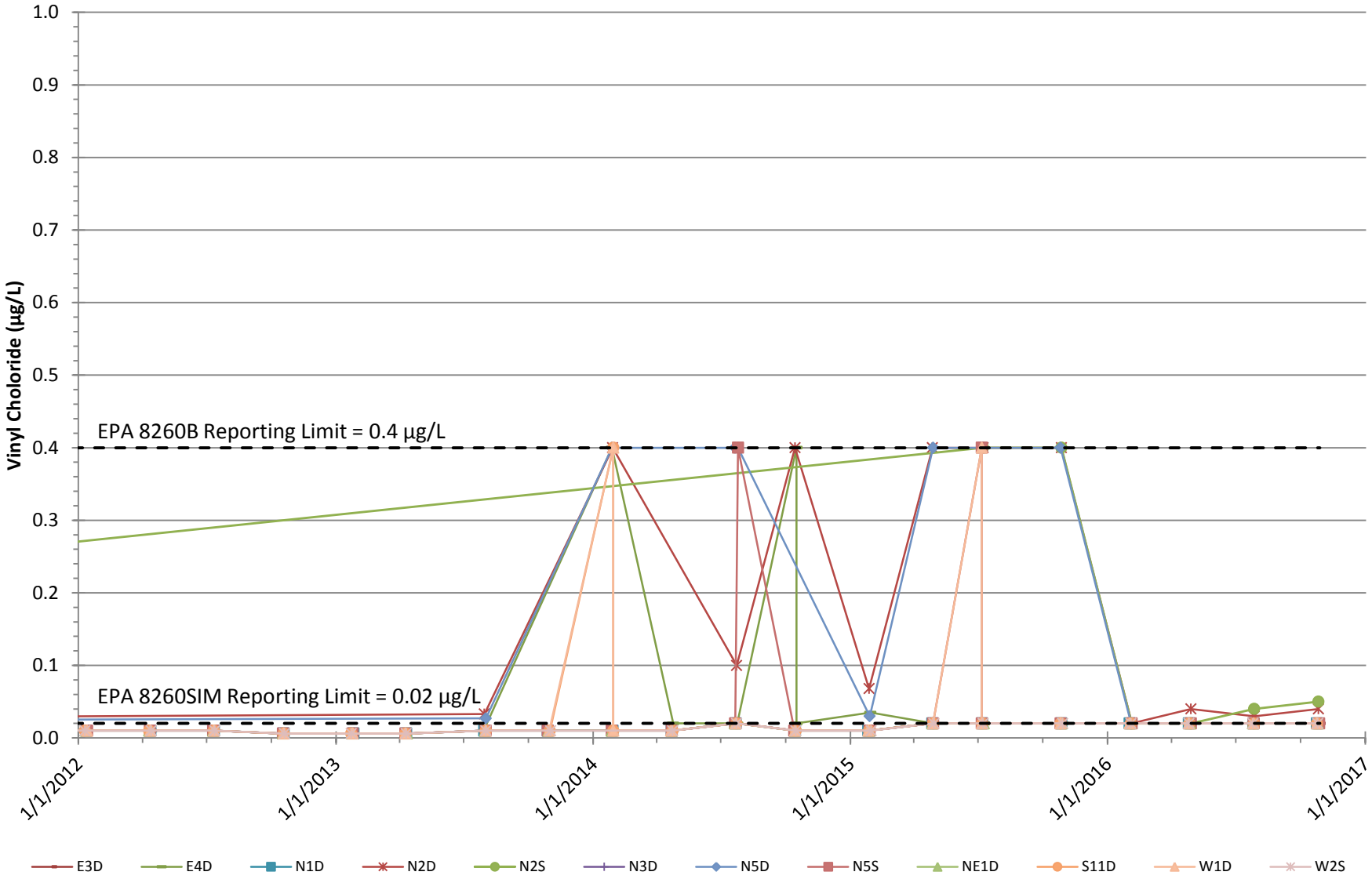

cis-1,2-Dichloroethylene Time Series
2016 Annual Monitoring Report
Coupeville Solidwaste Facility, Island County, Washington
cis-1,2-dichloroethylene (ug/L)
2.5
2.0
1.5
1.0
0.5
0.0
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
C1S


Methylene Chloride Time Series
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington
Methylene Chloride (ug/L)
10
9
8
7
6
5
4
3
2
1
0
1/1/2012
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
C1S
E1S
E2D
N2S
S10S

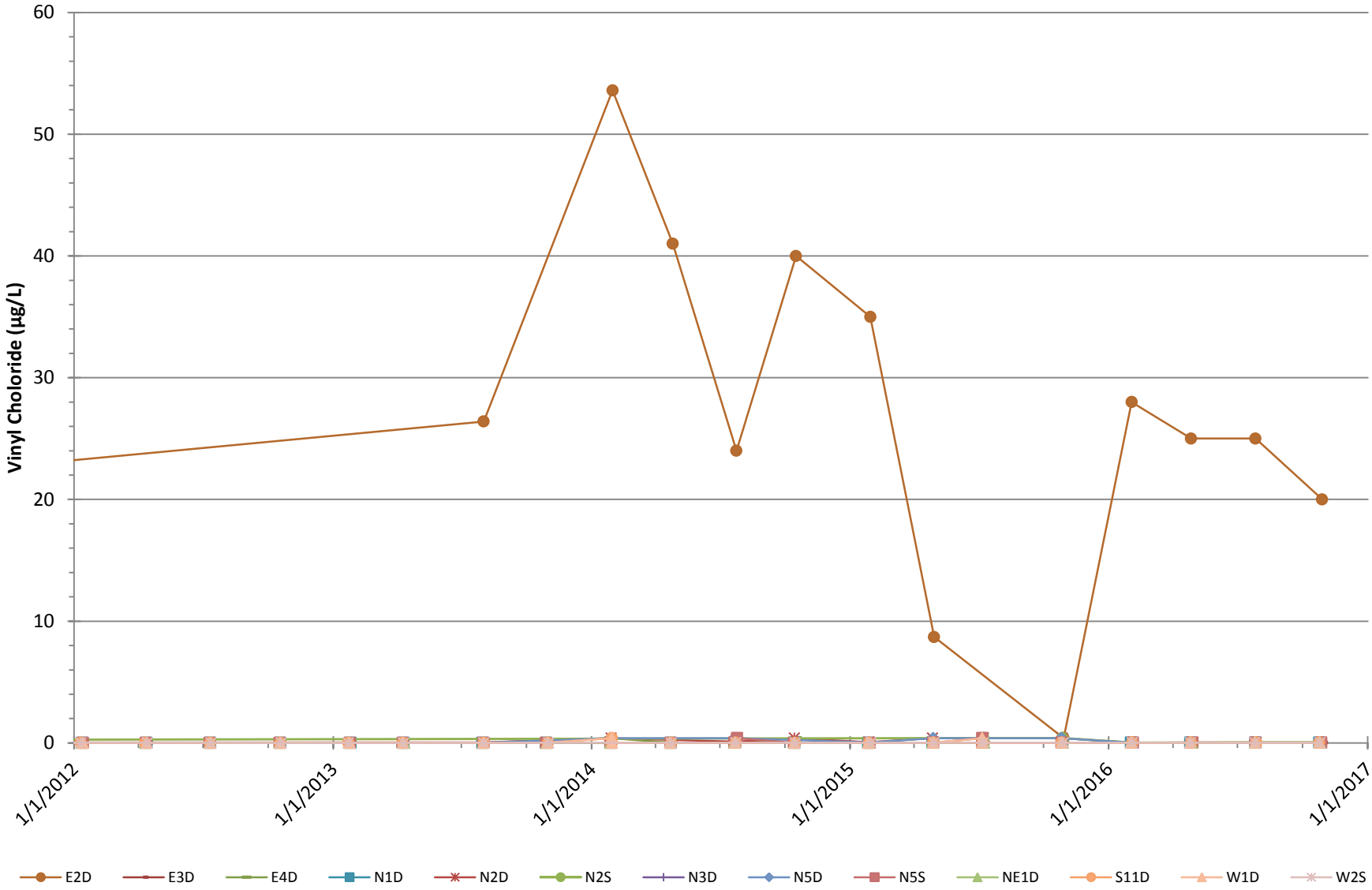
Vinyl ChlorideTime Series - Aquifer 1
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



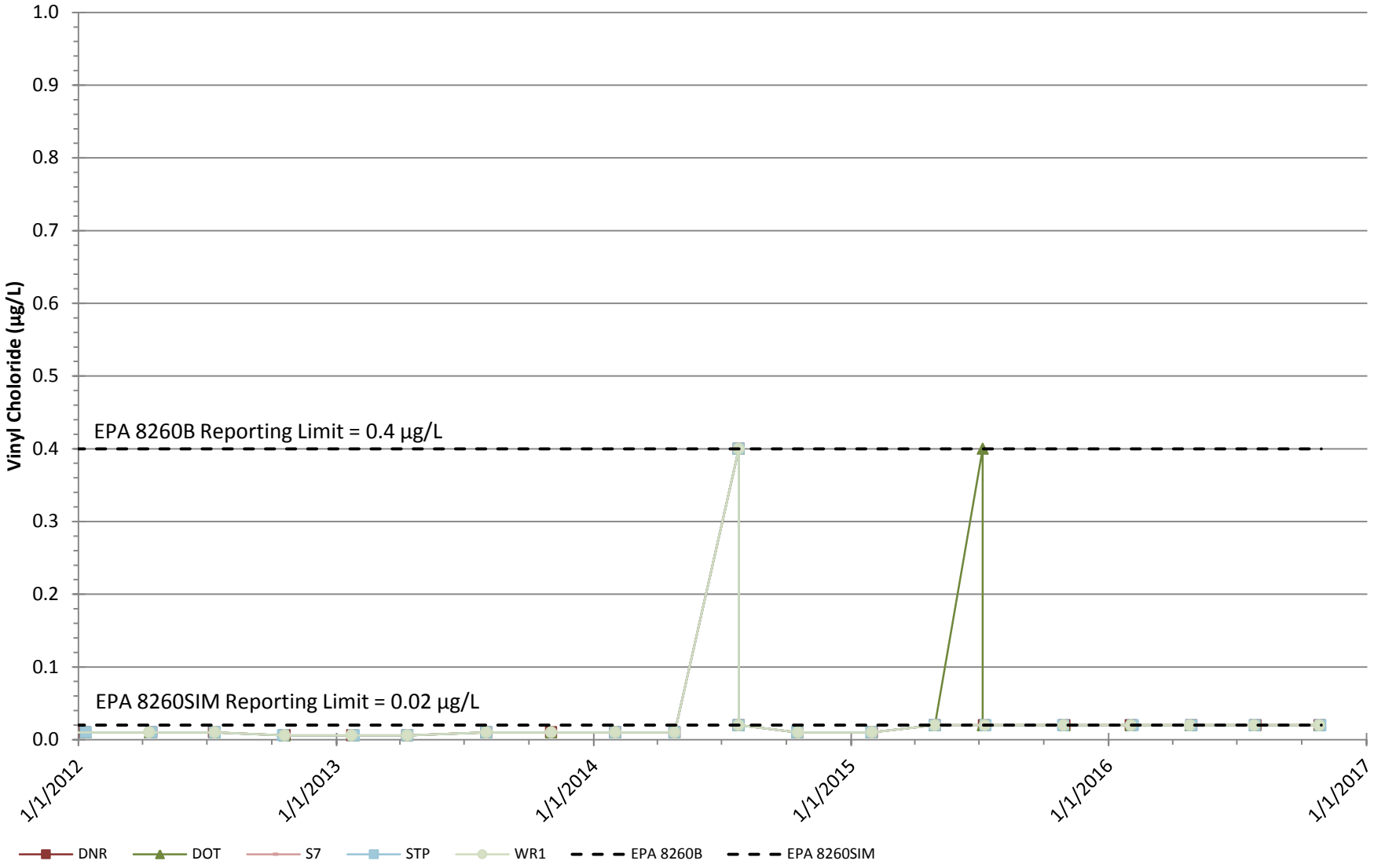
Vinyl ChlorideTime Series - Aquifer 2 (Low Range)
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



Vinyl ChlorideTime Series - Aquifer 2 (High Range)
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



Vinyl ChlorideTime Series - Pumping Wells
2016 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

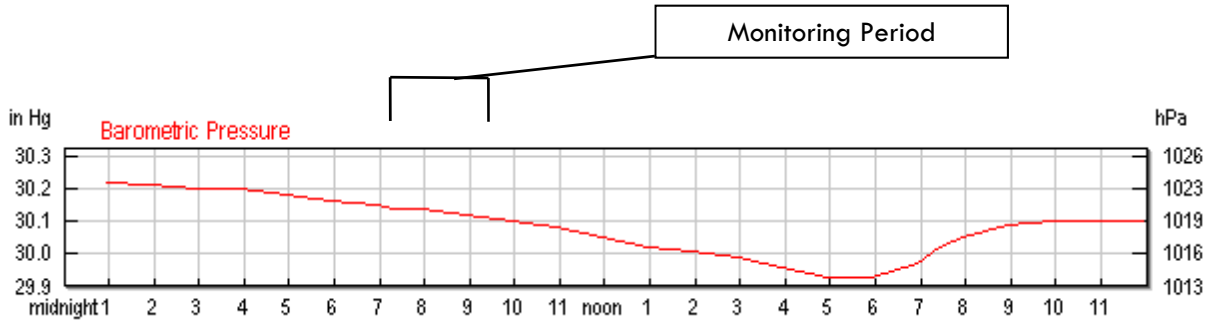


APPENDIX D

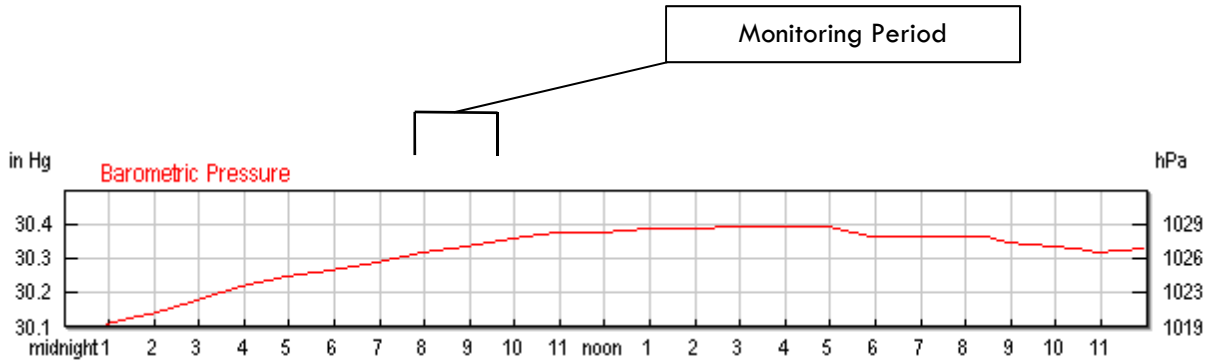
2016 BARAMETRIC PRESSURE DATA

Figure D-1. Barometric Pressure Trends for February 2016
First Quarter 2016 Data Review
Coupeville Solid Waste Facility, Island County, Washington

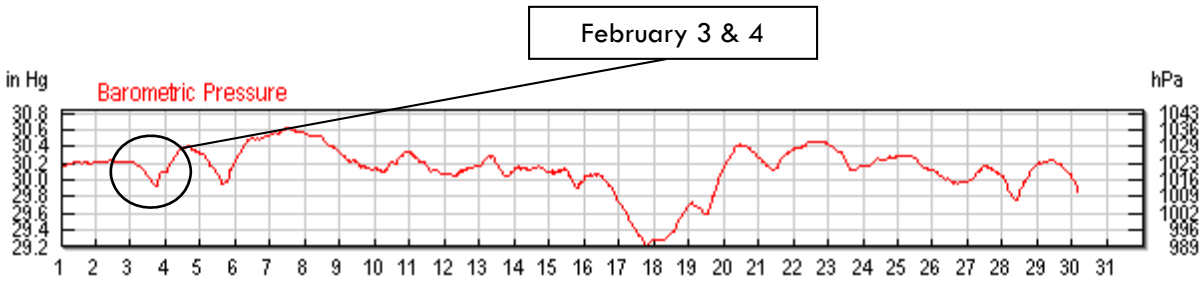
Barometric Pressure Trend for February 3, 2016



Barometric Pressure Trend for February 4, 2016



Barometric Pressure Trend for February 2016

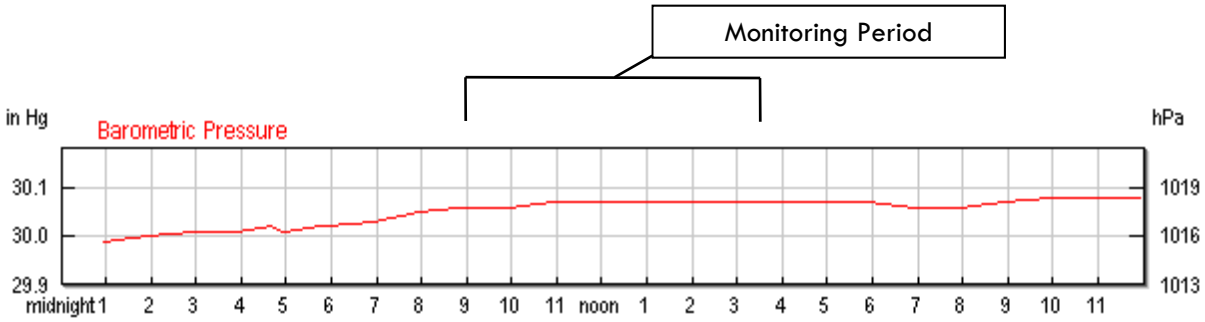


Source: Oak Harbor, Washington

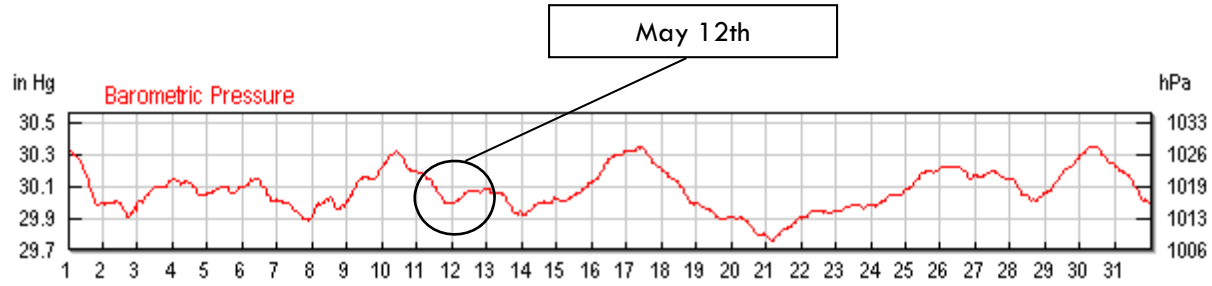
https://www.wunderground.com/history/airport/KNUW/2016/2/4/MonthlyHistory.html?req_city=Oak+Harbor&req_state=WA&req_statename=&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999

Figure D-2. Barometric Pressure Trends for May 2016
Second Quarter 2016 Data Review
Coupeville Solid Waste Facility, Island County, Washington

Barometric Pressure Trend for May 12, 2016



Barometric Pressure Trend for May 2016

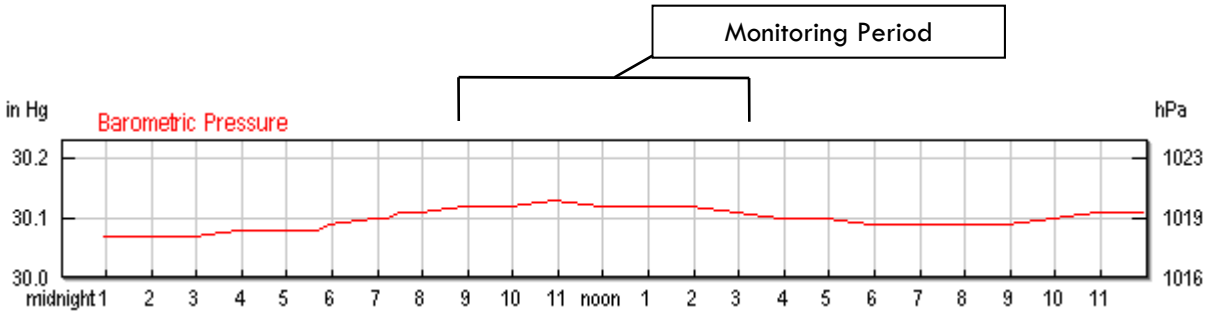


Source: Oak Harbor, Washington

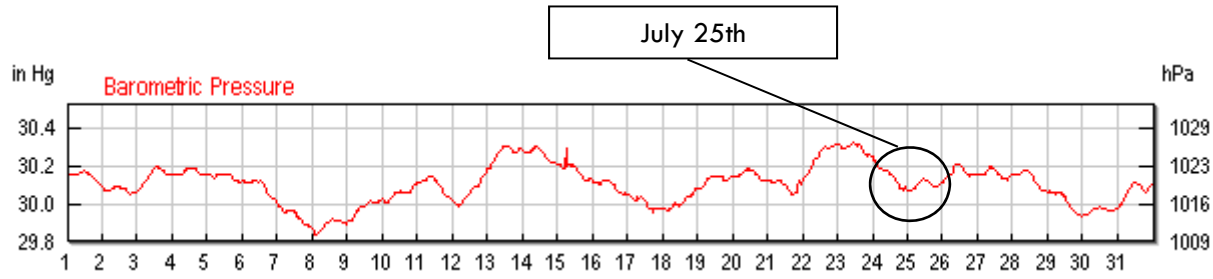
https://www.wunderground.com/history/airport/KNUW/2016/5/12/MonthlyHistory.html?req_city=Oak%20Harbor&req_state=WA&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999

Figure D-3. Barometric Pressure Trends for July 2016
Third Quarter 2016 Data Review
Coupeville Solid Waste Facility, Island County, Washington

Barometric Pressure Trend for July 25, 2016



Barometric Pressure Trend for July 2016

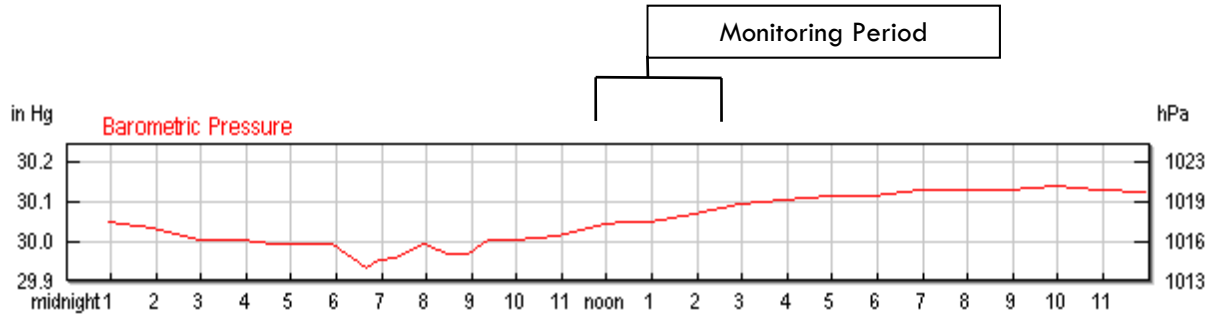


Source: Oak Harbor, Washington

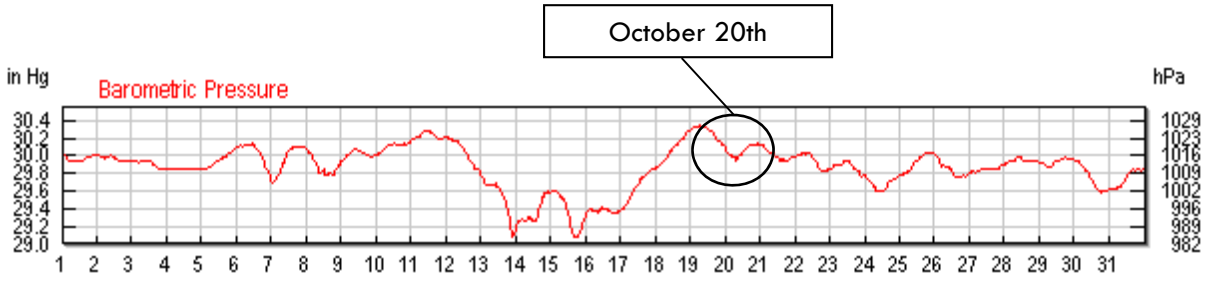
https://www.wunderground.com/history/airport/KNUW/2016/5/12/MonthlyHistory.html?req_city=Oak%20Harbor&req_state=WA&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999

Figure D-4. Barometric Pressure Trends for October 2016
Fourth Quarter 2016 Data Review
Coupeville Solid Waste Facility, Island County, Washington

Barometric Pressure Trend for October 20, 2016



Barometric Pressure Trend for October 2016



Source: Oak Harbor, Washington

https://www.wunderground.com/history/airport/KNUW/2016/10/20/MonthlyHistory.html?req_city=Oak%20Harbor&req_state=WA&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999