



2015 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:

SCS ENGINEERS
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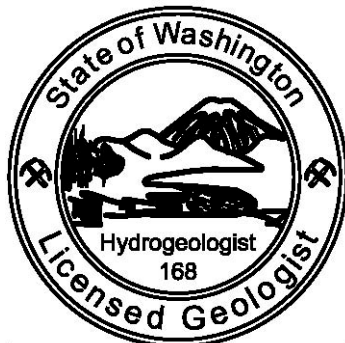
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Table of Contents

Section	Page
1.0 Introduction.....	1
1.1 Report Contents.....	1
1.2 Summary of Results.....	2
1.2.1 Groundwater	2
1.2.2 Landfill Gas Probes.....	3
1.2.3 Contaminant Source Control Operations.....	4
2.0 Background and Site Description.....	5
2.1 Location and Operational History	5
2.2 Topography and Climate.....	6
2.3 Local and Regional Hydrogeology	6
3.0 Groundwater	7
3.1 Monitoring Activities	8
3.1.1 Water Level Measurements	8
3.1.2 Sample Collection and Analysis	8
3.2 Results.....	9
3.2.1 Groundwater Elevations	9
3.2.2 Water Quality.....	10
3.2.2.1 Field Parameters.....	10
3.2.2.2 General Chemistry	11
3.2.2.3 Metals	13
3.2.2.4 Volatile Organic Compounds	14
3.2.2.5 Herbicides	15
3.2.2.6 Groundwater Data QA/QC.....	15
3.2.3 Groundwater Quality Criteria Comparison.....	16
3.3 Evaluation of Groundwater Quality.....	17
3.3.1 Spatial Distribution	17
3.3.2 Temporal Trends	18
3.3.3 Groundwater Geochemistry	19
4.0 Landfill Gas	20
4.1 Compliance Monitoring Activities.....	20
4.1.1 Field Procedures.....	20
4.2 Results.....	21
4.2.1 Gas Probes	21
4.2.2 Structures - Animal Shelter and Scale House.....	21
4.3 Evaluation of Landfill Gas Composition.....	22
4.3.1 Gas Probes	22
4.3.2 Structures - Animal Shelter and Scale House.....	22
5.0 Contaminant Source Control Operations.....	23
5.1 Operational Activities	23
5.1.1 Landfill Gas and Soil Vapor Extraction.....	23
5.1.1.1 Monitoring Activities.....	23

5.1.2	Stormwater Collection from the Waste Disposal Areas	24
5.2	Results.....	24
5.2.1	Landfill Gas Collection from In-Refuse and Native Soil Extraction Points	24
5.2.2	Stormwater Collection from the Waste Disposal Areas	25
5.3	Evaluation of Contaminant Source Control Operations.....	25
5.3.1	Landfill Gas Collection from In-Refuse and Native Soil Extraction Points	25
5.3.2	Stormwater Collection from the Waste Disposal Areas	26
6.0	Recommendations	27

Appendices

Appendix A	2015 Field Documentation
Appendix B	2015 Analytical Data Validation and Laboratory Reports
Appendix C	2015 Groundwater Geochemical Evaluation
Appendix D	2015 Barometric Pressure Data

List of Figures

Figure 1	Site Location Map
Figure 2	Groundwater Monitoring Well Network
Figure 3	Groundwater Elevation Time Series – Aquifer 1
Figure 4	Groundwater Elevation Time Series – Perched Groundwater Zone
Figure 5	Groundwater Elevation Time Series – Aquifer 2
Figure 6A	Aquifer 1 Groundwater Elevations – January 2015
Figure 6B	Aquifer 2 Groundwater Elevations – January 2015
Figure 7A	Aquifer 1 Groundwater Elevations – April 2015
Figure 7B	Aquifer 2 Groundwater Elevations – April 2015
Figure 8A	Aquifer 1 Groundwater Elevations – July 2015
Figure 8B	Aquifer 2 Groundwater Elevations – July 2015
Figure 9A	Aquifer 1 Groundwater Elevations – October 2015
Figure 9B	Aquifer 2 Groundwater Elevations – October 2015
Figure 10	Landfill Gas Probe Monitoring Network
Figure 11	Landfill Gas Extraction System
Figure 12	Soil Vapor Extraction System
Figure 13	Cross Section of Extraction System and MSW/CDL Landfills
Figure 14	Stormwater Pump Station Removal Volumes
Figure 15	Flow Rates and Removal Volumes for LFG and SVE Systems

List of Tables

Table 1A	Historical Groundwater Elevations – Aquifer 1
Table 1B	Historical Groundwater Elevations – Aquifer 2
Table 2A	Field Parameter, General Chemistry, and Inorganic Results – Aquifer 1
Table 2B	Field Parameter, General Chemistry, and Inorganic Results – Aquifer 2
Table 2C	Field Parameter, General Chemistry, and Inorganic Results – Water Supply Wells
Table 3A	Volatile Organic Compound Results – Aquifer 1
Table 3B	Volatile Organic Compound Results – Aquifer 2
Table 3C	Volatile Organic Compound Results – Water Supply Wells
Table 4	Additional VOC Assessment Wells Results
Table 5	Volatile Organic Compound Detections in Groundwater
Table 6	Exceedances of WAC 173-200 Criteria and Federal MCLs
Table 7	Short and Long Term Statistics for Select Parameters in Groundwater
Table 8	Landfill Gas Monitoring Data - 2015
Table 9	Source Control Operations Data
Table 10	Soil Gas and Landfill Gas Removal Volumes
Table 11	LFG and SVE System Flow Rates

1.0 INTRODUCTION

This Annual Report provides a summary of the field and laboratory results for the 2015 post-closure environmental monitoring activities conducted at the Island County Coupeville Solid Waste Facility (CWSF) located at 20062 State Route 20 in Coupeville, Washington.

Environmental monitoring activities completed over the 2015 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 CWSF 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, four volatile organic compound (VOC) assessment wells were also sampled during 2015. Data obtained from these additional wells has also been summarized in this report. The environmental monitoring and sampling activities over the 2015 reporting period were performed by SCS Engineers and SCS Field Services.

1.1 REPORT CONTENTS

The 2015 Annual Monitoring Report includes:

- Background and Site Description (including figures of site location and facility layout)
- A summary of the quarterly 2015 monitoring effort
 - Measurement of groundwater levels at 27 monitoring wells
 - Landfill gas 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 four VOC assessment wells
- An evaluation and summary of the 2015 groundwater elevation/flow direction, field monitoring, and analytical data
- A summary of the 2015 landfill gas monitoring results
- A summary of the contaminant source control operation results
- A comparison and summary of 2015 analytical data to regulatory criteria

- A geochemical evaluation of recent (2015) 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 2015
- 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 2015 compliance period were generally consistent with those previously reported for the site. 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. The latter data are currently being processed using a quantitative groundwater model to evaluate contaminant fate and transport within the VOC plume. The results of the modelling effort, which are anticipated to be completed during the spring of 2016, will be used to assess whether landfill contaminants are likely to migrate beyond County property. In addition, these data will be used to locate two additional “sentinel” monitoring wells along the CSWF’s downgradient property border in the summer/fall of 2016.

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 2015. The WAC 173-200 groundwater criteria for vinyl chloride was exceeded in eight of the primary compliance monitoring wells (E1D, E2S, N2S, S10S, E2D, E4D, N2D and N5D) 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. A single low-level exceedance of trans-1,3-dichloropropane (N5S in January) was also reported.

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 appears to be decreasing over time. Concentrations have decreased from more than 200 microgram per liter ($\mu\text{g/L}$) in December 2002 to 4.4 $\mu\text{g/L}$ in October 2015.

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:

- Sulfate in Aquifer 2 well N5D.
- Total nitrate/nitrite in Aquifer 2 well E2D.
- Total dissolved solids in Aquifer 1 well E4S.
- Arsenic, iron and specific conductance in water supply well STP.

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 (1.35 ft/day) than that observed in the Aquifer 2 (0.10 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. However, as previously mentioned, two additional “sentinel” monitoring wells are anticipated to be installed in 2016 along the eastern property border to address concerns raised by Island County Public Health.

1.2.2 Landfill Gas Probes

The gas probe monitoring results continue to indicate that landfill gas (represented by combined methane and carbon dioxide) remains present in the soils surrounding the landfill. Carbon dioxide was the sole component of landfill gas detected during the 2015 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 2015, which is associated with the displacement of air by landfill gas.

Landfill gas regulatory requirements only apply to the methane component due to its explosive and flammable nature. During the 2015 monitoring events, methane was not detected in any of the perimeter gas probes installed in native soil. As such, the site is 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 landfill gas control system featuring improved landfill gas extraction from the refuse mass by adding vertical extraction wells and the addition of a soil vapor extraction system to recover landfill gas from the vadose zone surrounding the landfill.

During 2015, a total of 18,027 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 196,425 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 December 30, 2015, the landfill gas extraction system operated an average of 7.44 hours per day and the soil gas extraction system operated an average of 12.20 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 gas from the waste when landfill gas is not being extracted. Landfill gas monitoring was conducted at approximately a 45-day interval during 2015.

The landfill gas extraction system appears to be successful in controlling landfill 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 landfill gas 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/yd² non-woven geotextile / 250 mil HDPE drainage net / 8 oz/yd² 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, glass, wood, 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 to the northeast (toward Penn Cove), while groundwater in the deeper aquifer appears to flow in a more northerly 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 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. Similarly, well N2S was not monitored during the first two quarters of 2015 due to insufficient water. 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 wells were installed in 2013 to assess VOC levels (primarily for vinyl chloride) in the deeper aquifer to the northeast (downgradient) of the landfill. 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.

2015 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)	
N1SR (2005)	N3D (1997)		
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 2015.

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. Depth-to-water measurements are not reported for monitoring well N2S during the first two quarters of 2015 due to the lack of measurable water. Similarly, monitoring well C1S was observed to be dry during the first quarter of 2015.

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 using a flow splitter (with two butterfly valves) connected to the sampling tap. The sampling taps at all water supply wells are located 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 the data obtained from the monitoring wells due to the differences in well construction and sampling possibly caused by concentration averaging that is likely to occur from differences in screen length and pumping rate. The purpose of this sampling is simply to assess the quality of water at the water supply wells to verify usability of the water.

Samples were packed in coolers containing ice, stored, and transported under chain-of-custody protocols to Edge Analytical Laboratory (Edge) in Burlington, 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
- 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 2015 reporting year ranged between 61.02 (NE1S in January) to 85.63 (W1S in April) feet above mean sea level (msl) with the exception of wells N4S and N1SR which have historically exhibit higher groundwater elevations. During 2015, groundwater elevations for wells N4S and N1SR ranged from 80.63 to 95.22 and 97.22 to 100.15 feet msl, respectively. These latter wells appear to represent locally perched water above Aquifer 1. Groundwater elevations observed during the reporting period in Aquifer 2 (deep aquifer) ranged from 49.09 (NE1D in October) to 58.07 (S11D in April 2015) 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 risen slightly 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 increasing trends are generally in the range of 0.5 to 3 feet 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 2015. Little change was observed in the flow direction over the course of the 2015 reporting 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 was consistent from quarter to quarter. The calculated gradient for Aquifer 1 ranged from 0.0152 to 0.0153 feet/foot for the 2015 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 2015 in Aquifer 1 was calculated to average 1.35 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/foot 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 2015 in Aquifer 2 was estimated to range between 0.110 to 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 2015 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 four new assessment wells (E5D through E8D) installed during 2013 are summarized on Table 4. A summary of VOC detections is also provided in Table 5. Field documentation for the 2015 groundwater monitoring events is presented in Appendix A.

3.2.2.1 Field Parameters

Field parameters results for the 2015 compliance period are summarized below.

Dissolved oxygen (DO) measurements recorded at the CSWF ranged from 0.2 to 7.0 milligrams per liter (mg/L) during the reporting period. Aquifer 1 and Aquifer 2 wells reported similar DO ranges (0.2 to 7.0 mg/L and 0.23 to 6.78 mg/L, respectively). The water supply wells reported a DO range of 0.71 to 3.94 mg/L.

Oxidation-reduction potential (ORP) measurements varied widely across the site ranging from negative (-) 220 to positive 378 millivolts (mV) over the reporting period. Lower (generally negative) ORP values were more commonly associated with locations situated near or

downgradient of the waste disposal cells. Water supply wells reported a ORP range of -162.9 to 378 mV.

The **pH** values recorded in the Aquifer 1 and Aquifer 2 during 2015 ranged between 5.53 to 8.12 standard units (SU). Water supply wells reported pH results ranging between 6.25 and 8.51 SU during the year. It should be noted that the pH field measurements most commonly remained within the 6.4 to 7.8 SU range, and that most of the outlier results are suspected to be related to inconsistent meter performance.

Specific conductivity (SC) measured at the CSWF ranged from 155 to 1,820 microSiemens per centimeter ($\mu\text{S}/\text{cm}$). Aquifer 1 and Aquifer 2 wells reported generally similar SC measurements ranging between 159 to 1,660 $\mu\text{S}/\text{cm}$ and 155 to 1,820 $\mu\text{S}/\text{cm}$, respectively. The water supply wells reported a SC range of 534 to 861 $\mu\text{S}/\text{cm}$.

Temperature measurements ranged from 7.9 °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 recorded 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 2015 remained generally low in all of the Aquifer 1, Aquifer 2 and water supply wells, ranging from 0.0 (non-detect) to 18.3 Nephelometric Turbidity Units (NTU). The water supply wells reported a wider range of turbidity from 0.7 to 31 NTU.

3.2.2.2 General Chemistry

The 2015 results for the general chemistry parameters are summarized below.

Total Alkalinity at the CSWF is principally comprised of the bicarbonate (HCO_3). During the reporting year, total alkalinity ranged from 202 to 1,230 mg/L. Aquifer 1 alkalinity varied between 202 and 860 mg/L, while Aquifer 2 alkalinity ranged from 240 (E4D during January) to 1,230 mg/L (E2D during October). The water supply wells reported an alkalinity range of 237 to 357 mg/L.

Ammonia was detected at concentrations ranging between 0.01 to 0.29 mg/L (E2D during April) over the reporting period. Aquifer 1 and Aquifer 2 wells reported similar ammonia ranges (0.01 to 0.10 mg/L and 0.01 to 0.29 mg/L, respectfully). The water supply wells detected ammonia ranging from 0.01 to 0.28 mg/L.

Calcium detections in the Aquifer 1 and Aquifer 2 wells ranged between 30.8 mg/L (N1SR in July) and 232.2 mg/L (E2D in July). Calcium detections in the water supply wells were generally lower, ranging from 34.7 to 83.6 mg/L.

Chemical Oxygen Demand (COD) ranged between 8 and 32 mg/L across the facility over the reporting year. Aquifer 1 and Aquifer 2 wells reported COD levels that ranged from 8 to 23

mg/L and 8 to 28 mg/L, respectfully. The water supply wells reported COD detections ranging from 10 to 32 mg/L.

Chloride concentrations ranged between 3.08 and 129 mg/L. Aquifer 1 chloride levels varied between 3.08 and 94.3 mg/L. Aquifer 2 chloride levels ranged from 16 to 129 mg/L. The water supply wells reported chloride concentrations ranging from 20.8 to 54.5 mg/L. The 250 mg/L groundwater quality criteria for chloride was not exceeded at the CSWF during the reporting year.

Fluoride levels reported at the CSWF during 2015 were low across the site ranging between 0.10 and 0.38 mg/L.

Magnesium concentrations over the reporting year in Aquifer 1 ranged between 7.2 and 111.7 mg/L. Aquifer 2 reported slightly lower magnesium levels from 24.3 and 109.8 mg/L. The water supply wells reported magnesium concentrations ranging between 28.6 to 55.1 mg/L.

Potassium concentrations ranged from 2.3 to 71 mg/L in Aquifer 1 over the reporting period. Aquifer 2 potassium levels were generally lower, ranging between 3.9 and 10.5 mg/L. The water supply wells reported potassium levels ranging from 4.9 to 12.4 mg/L.

Sodium levels were generally highest in the Aquifer 2 wells, ranging between 20.1 and 49.8 mg/L. Aquifer 1 reported sodium concentrations between 12.2 and 47 mg/L. Sodium levels in the water supply wells ranged from 19.1 to 33.4 mg/L.

Sulfate concentrations during the reporting period ranged between 5.8 and 271 mg/L. Well C1S typically reported the highest sulfate levels at the site. Aquifer 1 sulfate concentrations varied between 10.9 and 271 mg/L. Aquifer 2 sulfate levels ranged from 11 to 139 mg/L. The water supply wells reported sulfate concentrations ranging between 5.8 and 41.9 mg/L. With the sole exception of the 271 mg/L (C1S in October) result, the 250 mg/L sulfate groundwater quality criteria was not exceeded during the reporting year.

Total dissolved solids (TDS) was detected at concentrations ranging between 254 (N1SR during July) and 1,129 mg/L (E3D during July) during the reporting period. Aquifer 1 and Aquifer 2 wells reported similar TDS ranges (254 to 1,014 mg/L and 328 to 1,129 mg/L, respectfully). The water supply wells detected lower TDS concentrations, ranging between 288 and 526 mg/L.

Nitrate/Nitrite was reported at the CSWF at concentrations ranging between 0.02 and 46.7 mg/L. The highest nitrate/nitrite levels were consistently reported in the Aquifer 1 wells, ranging from 0.16 to 46.7 mg/L. Nitrate/nitrite was most elevated in well S10S (34 to 46.7 mg/L, but routinely exceeded 5 mg/L in nine of the Aquifer 1 wells. Aquifer 2 and the water supply wells reported significantly lower nitrate/nitrite concentrations, ranging from 0.02 to 3.75 mg/L and 0.15 to 1.44 mg/L, respectfully. Although the 10 mg/L groundwater quality criteria was exceeded in two Aquifer 2 wells (S10S and E1S) during the reporting year, these elevated nitrate/nitrite detections are suspected to be related to non-landfill sources.

Total organic carbon (TOC) ranged between 0.61 and 6.63 mg/L in the Aquifer 1 wells during the reporting year. Aquifer 2 reported TOC levels that ranged from 0.65 to 3.9 mg/L, while the water supply wells reported TOC results ranging from 0.75 to 1.54 mg/L.

3.2.2.3 Metals

Metals results for the 2015 reporting year are summarized below. 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.

Arsenic concentrations during the reporting period ranged between 0.0007 and 0.081 mg/L. Aquifer 1 arsenic concentrations varied between 0.001 and 0.011 mg/L. Aquifer 2 arsenic levels ranged from 0.0007 to 0.014 mg/L. The water supply wells reported arsenic concentrations ranging between 0.003 and 0.081 mg/L. The highest arsenic detections were generally reported in water supply well STP.

Barium concentrations ranged from 0.013 to 0.123 mg/L. The Aquifer 1 and water supply wells reported similar barium ranges (0.013 to 0.069 mg/L and 0.022 to 0.055 mg/L, respectfully). Aquifer 2 reported slightly higher barium levels from 0.02 to 0.123 mg/L.

Chromium was reported at the CSWF at concentrations that ranged between 0.0002 and 0.036 mg/L. Aquifer 1 chromium levels varied between 0.0008 and 0.014 mg/L. Chromium in Aquifer 2 wells ranged from 0.0002 to 0.009 mg/L. The water supply wells reported chromium ranging between 0.007 and 0.036 mg/L.

Cobalt was sporadically reported during 2015 at concentrations ranging from 0.0001 to 0.004 mg/L.

Copper was detected at levels ranged between 0.0004 and 0.614 mg/L over the reporting period. The Aquifer 1 and Aquifer 2 wells reported similar copper ranges (0.0007 and 0.006 mg/L and 0.0004 to 0.003 mg/L, respectfully). The water supply wells reported a higher range of copper detections from 0.001 to 0.614 mg/L. The highest copper levels were observed in well STP.

Iron concentrations were detected from 0.004 to 31.7 mg/L. Aquifer 1 and Aquifer 2 reported similar iron concentrations (0.004 to 1.18 mg/L and 0.006 to 1.36 mg/L, respectfully). Iron detections in the water supply wells were generally higher, ranging between 0.02 to 31.7 mg/L. The highest iron levels were observed in well STP.

Manganese detections ranged between 0.0007 and 0.483 mg/L over the reporting period. Aquifer 1 manganese concentrations varied between 0.0007 and 0.484 mg/L. Aquifer 2 manganese levels ranged from 0.0005 to 0.265 mg/L. The water supply wells reported manganese concentrations ranging between 0.0008 and 0.339 mg/L. The highest manganese levels during 2015 were noted in wells E2S and E4S.

Nickel was sporadically reported during 2015 at concentrations ranging from 0.0003 to 0.021 mg/L. The highest nickel detection occurred in well STP.

Zinc concentrations were reported between 0.0015 to 4.17 mg/L. Aquifer 1 and Aquifer 2 reported similar zinc levels (0.0015 to 0.007 mg/L and 0.0015 to 0.062 mg/L, respectively). Zinc detections in the water supply wells ranged between 0.022 to 4.17 mg/L. The highest zinc detection was reported in well STP.

3.2.2.4 Volatile Organic Compounds

As noted above, Tables 4 and 5 presents a summary of the volatile organic compounds that were detected during 2015 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 15 VOCs were detected in groundwater samples collected from CSWF Aquifer 1 and Aquifer 2 monitoring wells during 2015. No detected VOCs concentrations were reported in the water supply wells sampled during the reporting period. 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 (E2D only)
- 1,2-dibromo-3-chloropropane
- acrylonitrile (E6D only)
- carbon disulfide
- chloroethane
- chloroform (E7D only)
- chloromethane
- cis-1,2-dichloroethene (C1S only)
- methylene chloride
- toluene
- trans-1,3-dichloropropane (N5S only)
- trichlorofluoromethane
- vinyl chloride

Five of the above listed VOCs (1,1-dichloroethylene, acrylonitrile, chloroform, cis-1,2-dichloroethene and trans-1,3-dichloropropane) were only sporadically detected in a single site monitoring well, and at low concentrations near the method detection limit.

During 2015, **1,1,1-trichloroethane** was reported in six wells (C1S, E1S, N2S, E2D, E7D, and S10S) at concentrations ranging between 0.31 and 0.8 µg/L.

1,1-dichloroethane was detected in three monitoring wells (N2S, E2D and E7D) at concentrations ranging between 0.8 and 2.3 µg/L. Downgradient Aquifer 2 well E7D reported the highest concentrations of this parameter.

Wells N3D, N5D and N5S each reported a single **1,2-dibromo-3-chloropropane** detection during 2015, each at a concentration of 0.4 µg/L.

Carbon disulfide was detected in wells (E2D, E4D, E6D, E7D and E8D) at concentrations ranging between 0.39 and 0.7 µg/L. With the exception of E8D (which reported three detections ranging from 0.4 to 0.7 µg/L), this compound was only detected once at each location.

Chloroethane was detected in wells E2D, E7D and N5S at concentrations ranging between 0.4 and 0.6 µg/L.

Chloromethane was sporadically detected in wells S11S, S11D and E7D at a concentrations ranging from 0.17 to 0.5 µg/L.

The compound **cis-1,2-dichloroethene** was detected at well C1S during all four 2015 monitoring events at concentrations ranging between 0.5 and 0.6 µg/L.

Methylene chloride was detected in well E2D and E7D during most of the 2015 monitoring events. Methylene chloride was reported at concentrations ranging from 0.48 to 1.2 µg/L.

Five wells (E2S, N5D, E2D, E4D and E7D) each reported a single **toluene** detection during 2015, at concentrations ranging between 0.029 and 0.4 µg/L.

Trichlorofluoromethane was detected at ten locations during 2015; including seven Aquifer 1 wells (C1S, E1S, E2S, N15R, N2S, N3S, and S10S) and three Aquifer 2 wells (E2D, E7D and N2D). Concentrations of this compound ranged from 0.5 to 66 µg/L over the course of the reporting period. The most elevated trichlorofluoromethane levels occurred in downgradient well E7D (ranging from 59.3 to 66 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 eight deep Aquifer 2 wells (E2D, E4D, E5D, 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 0.01 to 35 µg/L during 2015. The highest vinyl chloride concentrations were detected in wells E2D (ranging from 5.2 to 35 µg/L) and E7D (ranging from 3.2 to 10.7 µg/L).

3.2.2.5 Herbicides

Groundwater samples collected from monitoring well E1S were analyzed for herbicides during 2015. Low levels of dicamba were detected in this well during each quarterly monitoring event, ranging from 8.9 µg/L (in January) to 4.4 µg/L (during October). 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 estimated MTCA Method B cleanup goal.

3.2.2.6 Groundwater Data QA/QC

As noted in previous reports, data quality issues continue to remain a concern with respect to some of the VOC analyses conducted by Edge Analytical Laboratory. During 2015, select field split samples were collected and analyzed by a second analytical laboratory (TestAmerica, Tacoma, Washington) as a quality control measure. The TestAmerica VOC analyses follow standard analytical methods and laboratory practices for the preservation, processing, analysis and reporting of volatile compounds in non-drinking water (i.e., environmental groundwater) aqueous samples. This data is presented throughout this report and documented on the quality

assurance and control documentation, based on currently available information, to be the most representative of environmental conditions at the time of sampling.

All analytical data reported by Edge Analytical and TestAmerica during 2015 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. The data were determined to be acceptable for the intended purposes. Based on our review of the current data set, the TestAmerica VOCs results for locations E2S, E2D and E7D, have been selected as being more representative of groundwater conditions at these locations than the primary sample results provided by Edge Analytical. Appendix B contains the data validation reports and the laboratory data packages for the reporting year.

3.2.3 Groundwater Quality Criteria Comparison

All analytical results were compared to the water quality criteria for ground waters 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 2015 reporting year can be found on Table 6. Water Quality criteria for the following ten analytes were exceeded:

- pH
- specific conductivity
- sulfate (single exceedance)
- total dissolved solids
- total nitrate/nitrite
- arsenic
- iron
- manganese
- trans-1,3-dichloropropene (single exceedance)
- vinyl chloride

The WAC 173-200 criteria and secondary MCL for **pH** (<6.5 or <8.5 SU) was exceeded at four Aquifer 1 wells (C1S, N1SR, SE1D and SE1S), three Aquifer 2 wells (N1D, W1D and W1S) and two water supply wells (STP and WR1) over the reporting period.

The secondary Federal MCL for **specific conductivity** (700 micro Siemens per centimeter, $\mu\text{S}/\text{cm}$) was exceeded at a majority of the wells during multiple sampling events.

The WAC 173-200 criteria and secondary MCL for **sulfate** (250 mg/L) was exceeded once during 2015 in Aquifer 1 well C1S (during October).

The WAC 173-200 criteria and secondary MCL for **total dissolved solids** (500 mg/L) was exceeded at least once during the reporting year in 21 wells, including 12 Aquifer 1 wells, seven Aquifer 2 wells and two water supply wells. 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 criteria 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 criteria for **arsenic** (0.00005 mg/L) was exceeded at least once during the 2015 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 in samples collected from Aquifer 1 well SE1D (during three quarters), Aquifer 2 wells E4D (during three quarters) and N3D (one quarter), and water supply well STP (all four quarters).

Iron concentrations exceeded the WAC 173-200 criteria and secondary MCL of 0.3 mg/L at least once during the reporting year in Aquifer 1 well SE1D, six Aquifer 2 wells (E2D, E4D, N1D, N3D, S11D and W1D) and four water supply wells (DNR, DOT, STP and WRI).

Manganese concentrations exceeded the WAC 173-200 criteria and secondary MCL of 0.05 mg/L at least once during the reporting year in 16 wells, including five Aquifer 1 wells, eight Aquifer 2 wells and four water supply wells.

The WAC 173-200 criteria for **trans-1,3-dichloropropene** (0.2 µg /L) was slightly exceeded once during 2015 in Aquifer 1 well N5S (during January).

The WAC 173-200 groundwater criteria (0.02 µg/L) for **vinyl chloride** was exceeded in eight of the primary CSWF wells during the reporting period: including four Aquifer 1 wells (E1D, E2S, N2S and S10S) and four Aquifer 2 wells (E2D, E4D, N2D and N5D). Vinyl chloride was exceeded at least once in three of the VOC assessment wells (E6D, E7D and E8D) during the reporting period. Vinyl chloride was not detected in any of the water supply wells during 2015.

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 concentrations of parameters typically occur within or immediately adjacent to the unlined waste disposal cells (either due to leaching from the landfill, landfill gas, or simply mobilization due the landfill's presence). The migration of the contaminants appears to be attenuated as evidenced by the reduced concentrations of target analytes at monitoring wells located 400 to 750 feet downgradient of the disposal areas. The 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 2015 evaluation of analytical results remain similar to those reported during previous monitoring years.

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 (covered 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 table below.

Summary of Short-Term (2014-2015) Concentration Trends			
Parameter	Aquifer Type	Number of Wells with Increasing Trends	Number of Wells with Decreasing Trends
Specific Conductance	1	None	None
	2	None	None
	WS	1 (STP)	None
Nitrate/Nitrite, total	1	1 (E2S)	1 (E1D)
	2	None	None
	WS	None	None
Sulfate	1	None	None
	2	1 (N5D)	None
	WS	None	None
TDS	1	1 (E4S)	None
	2	None	1 (W1D)
	WS	None	None
Arsenic	1	None	None
	2	None	None
	WS	1 (STP)	None
Iron	1	None	None
	2	None	None
	WS	1 (STP)	None
Manganese	1	None	None
	2	None	None
	WS	None	None
Vinyl chloride (not detected in WS wells)	1	None	None
	2	None	None

These short-term (2 year) trends are also discernable in the 5-year time series diagrams attached to Appendix C.

3.3.3 Groundwater Geochemistry

The geochemical character of groundwater for Aquifer 1, Aquifer 2 and the water supply wells was evaluated for each of the 2015 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. Similar to past compliance years, 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 2015 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. Two groundwater samples (E2S and S10S, both collected during October 2015) 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 landfill gas 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 landfill gas 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 landfill gas 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 condensate sump, and upgraded flare control. An additional soil vapor extraction well (VGW-9) was installed in 2008. In February 2014, the blower on the landfill gas extraction system failed and was replaced with the soil vapor extraction blower. New blowers were installed for both the landfill gas 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 during the September 2015 monitoring event.

4.1 COMPLIANCE MONITORING ACTIVITIES

Landfill gas 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. Landfill gas monitoring procedures are detailed in the Landfill Gas Monitoring Plan 2008 Revision, Coupeville Solid Waste Facility, prepared by SCS (April, 2008). The landfill gas monitoring program monitors primary landfill gas (methane, carbon dioxide, and oxygen) concentrations and relative soil pressure, if applicable.

The landfill gas probes that are currently monitored include:

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

Landfill gas probe locations can be found on Figure 10.

4.1.1 Field Procedures

The gas 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 gas concentrations and pressure in gas probes. To assist with interpreting these data, barometric conditions were recorded during and prior to monitoring events and can be found in Appendix D.

4.2 RESULTS

The following results are organized by gas probe location, not depth-dependent sampling, and represent stabilized sampling conditions after purging at least one probe volume. Both stabilized readings and short-term readings of elevated pressures (“spikes”) at a gas probe may indicate the potential presence of gas 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.

As previously noted, landfill gas concentrations and pressures are influenced by fluctuating barometric pressure. Higher gas concentrations are typically observed at the end of significantly falling barometric pressure trend. Due to this potential influence, barometric pressure trends were observed prior to and during the landfill gas monitoring event. Barometric pressure trends that occurred during the 2015 sampling events have been included in Appendix D.

Landfill gas monitoring results for 2015 are presented in Table 8.

4.2.1 Gas Probes

Results show that under stabilized sampling conditions, no methane was present in the gas probes. Carbon dioxide was observed during the reporting period in all gas probes, ranging from 0.5 to 9.7 percent by volume except GP-20-78. Carbon dioxide was also not detected above 0.3 percent by volume for measurements in probes GP-23-78, GP-24-18, GP-24-78, GP-24-98, GP-25-98, and GP-6D during the February monitoring event, GP-13S, GP-23-78, GP-24-78, GP-24-98, GP-25-98, GP-28, GP-6D, and GP-6S during the April 2015 monitoring event, GP-23-78, GP-24-98, GP-6D and GP-6S in August 2015 and at GP-17D during the October monitoring event.

Depressed oxygen concentrations were recorded during the reporting period in all of the gas probes and ranged between 9.8 and 20.1 percent by volume. Oxygen concentrations above 20.4 percent by volume were observed in GP-1S, GP-6S, GP-17D, and GP-20-78 during the October 2015 monitoring event. Representative relative (static) pressure in the perimeter gas probes ranged from -1.11 to +1.65 inches of water.

4.2.2 Structures - Animal Shelter and Scale House

Methane was not observed in the animal shelter or scale house during the 2015 monitoring events. Carbon dioxide was not detected above 0.3 percent by volume at the animal shelter or

scale house during 2015. Depressed oxygen was not observed in the animal shelter or scale house across any events in 2015. The animal shelter was vacated prior to the October 2015 sampling event. The building was locked and not monitored during the October event.

4.3 EVALUATION OF LANDFILL GAS COMPOSITION

Landfill gas production 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 gas movement in the soil is diffusion (movement from a high concentration to low concentration) due to the age of waste and very low gas production. This method of soil gas movement is much less pronounced as opposed to convective driven gas 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 gas appears to allow the methane to oxidize before reaching the monitoring locations (gas probes). Again, due to the age of waste, very low gas production, and the method of gas movement within the surrounding geologic formation (sandy/gravelly soils), methane is not observed at the compliance monitoring locations.

The 2015 monitoring results indicate that landfill gas (combined methane and carbon dioxide) remains present in the soils surrounding the disposal areas at very low concentrations. This is evident by the presence of carbon dioxide and lack of methane detections (and residual depressed oxygen concentrations) at discrete locations. Results from these monitoring probes indicate that, for the most part, methane is oxidized and is not present in soils near the property boundary.

The following discussion is specific to each subsystem within the landfill gas monitoring network.

4.3.1 Gas Probes

Similar to previous monitoring years, all of the gas probes indicate the presence of landfill gas. However, results from these gas probes demonstrate that migration of methane to the site boundary and on-site structures is in control. No methane was detected in the gas probes, oxygen concentrations were no lower than 8.2 percent by volume, and carbon dioxide concentrations were no higher than 9.7 percent by volume. At this time, no action other than continued routine monitoring and tuning of the active gas extraction wells is recommended.

4.3.2 Structures - Animal Shelter and Scale House

Methane was not measured in the animal shelter or scale house. Carbon dioxide was detected at very low levels in the animal shelter and scale house. Depressed oxygen was not observed in the animal shelter or at the scale house during 2015.

5.0 CONTAMINANT SOURCE CONTROL OPERATIONS

Contaminant source control systems now operating at the CSWF include stormwater collection from the waste disposal areas and landfill gas extraction. The soil vapor extraction system from the native soil extraction wells was found off during the June monitoring event and was recommissioned during the September 2015 monitoring event.

5.1 OPERATIONAL ACTIVITIES

5.1.1 Landfill Gas and Soil Vapor Extraction

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

Landfill gas 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 landfill gas 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 landfill gas 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 December 30, 2015, the landfill gas extraction system operated an average of 7.44 hours per week day and the soil vapor extraction system operated an average of 12.20 hours per week day, as shown on Table 9. These operational times are intended to balance extraction with the generation of landfill gas. 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 gas treatment system (flare) from operating correctly. Excessive extraction of native soil gas could induce migration of landfill gas from the waste mass to native soil when landfill gas is not being extracted.

5.1.1.1 Monitoring Activities

Landfill gas and soil vapor extraction are monitored every 45 days at each of the landfill gas extraction wells, soil vapor extraction wells, and blower inlets as illustrated on Figures 10 and 11. These locations are monitored for primary landfill gas 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 Landfill Gas Extraction Wells (VGW-#), five total,
- Horizontal Landfill Gas Extraction Wells (HGW-#), nine total,
- Vertical Soil Vapor Extraction Wells (VGW-# NS), four total,
- Blower Inlets (BL-LFG and BL-SV)

General weather conditions were noted during and preceding the monitoring events. Atmospheric pressure fluctuations can influence gas concentrations and pressure in gas wells. To assist in interpreting data, barometric conditions were recorded during and prior to monitoring. The barometric pressure trend prior to sampling was also recorded from the nearest available weather station. Barometric pressure conditions preceding and during each 2015 event are presented in Appendix D.

New landfill gas extraction wellheads were installed on all 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 2015.

5.2 RESULTS

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

The performance of the landfill gas 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 landfill gas extraction system operated under daily intermittent cycle for a total 26,872 hours between November 22, 2005 and December 30, 2015. During this time it has extracted approximately 76,900,000 cubic feet of landfill gas 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 23 scfm through 2015, as extraction rates have converged with gas generation rates. The gas composition at the blower inlet has averaged 27.8 percent methane, 17.1 percent carbon dioxide, and 2.4 percent oxygen in 2015.

The soil vapor extraction system operated under daily intermittent cycle for a total 44,096 hours between November 22, 2005 and late December 2015. During this time it has extracted approximately 121,900,000 cubic feet of soil vapor/gas from the native soil below the disposal areas. The rate of extraction was approximately 13 scfm in 2015. The gas composition at the blower inlet has averaged 2.0 percent methane, 2.3 percent carbon dioxide, and 18.3 percent oxygen in 2015.

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 30, 2015, a total of 196,425 gallons of stormwater were pumped from the collection system sump and discharged to the infiltration pond west of the disposal areas. A total of 18,027 gallons of stormwater were pumped through the collection system during the 2015 reporting period.

5.3 EVALUATION OF CONTAMINANT SOURCE CONTROL OPERATIONS

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

The landfill gas control system has been enhanced to provide additional source control of landfill gas and removal of landfill gas from the vadose zone. Removal of landfill gas from the vadose zone also provides a measure of source control for groundwater quality. In 2005, additional gas 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 gas 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 landfill gas and soil vapor extraction.

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

Removal of soil vapor/gas from the vadose zone continues to increase with each day of operation. As of December 10, 2015, after approximately 3,613 days of operations at 12.20 hours per day, approximately 121,900,000 cubic feet of landfill gas has been removed from the vadose zone. The gas composition at the blower inlet has averaged 2.0 percent methane, 2.3 percent carbon dioxide, and 18.3 percent oxygen in 2015, 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. Gas probes GP-20 and GP-21 have shown clear evidence of decreased landfill gas concentrations in the vadose zone over time.

Before activation of the soil vapor extraction system, an estimated 51 to 80 million cubic feet of landfill gas 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 landfill gas extraction system appears to be successful in controlling landfill gas generated within the refuse mass thereby providing source control of landfill migration to the vadose zone. This success of this system's operations is evident by:

- The amount of landfill gas removed from the landfill (76,882,758 cubic feet)
- Well coverage/influence over greater volume of refuse mass
- Ability to adjust well extraction rates to match gas generation rates

The soil vapor extraction system appears to be successful in extraction landfill gas from the vadose zone and thereby is expected to be providing a 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 (121,866,096 cubic feet)
- The gas composition at the blower inlet has averaged 2.0 percent methane, 2.3 percent carbon dioxide, and 18.3 percent oxygen in 2015.
Reduction in landfill gas concentrations at select gas probes (GP-20 from 12.5 to 3.3 percent, GP-21 from 10 to 2.5 percent)

5.3.2 Stormwater Collection from the Waste Disposal Areas

On average, for every inch of rainfall 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 18,027 gallons of stormwater were removed during the 2015 reporting period. The observed rise in Aquifer 1 groundwater elevations appears to be less pronounced around the north and east portions of the waste disposal area (e.g., wells C1S, N3S). This observation is likely due to the continued operation of the stormwater collection system at the interface of the CDL/MSW landfills. Prior to this improvement, the runoff and infiltration water flowed into the CDL Landfill.

6.0 RECOMMENDATIONS

The results of the 2015 groundwater and landfill gas 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 are 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 Aquifer 1 wells located near the disposal cells. During 2015, vinyl chloride levels have generally remained stable in most site monitoring wells.

The distance between the perimeter wells reporting vinyl chloride exceedances and the property boundary (on the order of 600-1,200 feet) suggests that vinyl chloride is not migrating beyond County property at this time. However, additional VOC assessment data collected from four “new” Aquifer 2 wells installed in 2013 is being evaluated using a numerical attenuation model (EPA’s BIOCHLOR or similar model) to better characterize the vinyl chloride plume and to facilitate our understanding of natural attenuation of this contaminant at the CSWF. It is anticipated that the results of the groundwater modelling evaluation will be available in the spring of 2016.

In order to address concerns raised by Island County Public Health, the facility is planning to install two additional Aquifer 2 monitoring wells near the northeast (hydrologically downgradient) border of the landfill. The new monitoring locations are intended to serve as sentinel wells to verify that, consistent with Island County Solid Waste Division policy, vinyl chloride will not migrate beyond the facility property. The new wells are anticipated to be installed during the summer/fall of 2016.

It is also expected that the groundwater monitoring plan for the CSWF will need to be updated in 2016 to reflect the additional Aquifer 2 well installations. Depending on the findings of the groundwater modelling evaluation, it is anticipated that the new sentinel wells and some or all of the VOC assessment wells will be incorporated into the routine monitoring program. In addition, the number of Aquifer 1, Aquifer 2 or water supply wells monitored, the sampling frequency, and the analytical testing suite should 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.

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.

Landfill gas monitoring results to date confirm the positive effects of removal of landfill gas from the vadose zone. However, based on the estimated volume of landfill gas in the vadose zone and number of unaffected gas probes, continued operation of the landfill gas and soil vapor extraction systems is recommended to continue to remove landfill gas from the vadose zone and achieve a balanced extraction rate for the landfill gas wells. It is recommended that monitoring and system balancing are continued to maintain optimum performance of both systems while preventing potential detrimental conditions such as air intrusion and pulling of landfill gas into the vadose zone.

TABLES

**Table 1A. Historical Groundwater Elevations - Aquifer 1
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Location Reference Elevation (ft. msl)	C1S		E1D		E1S		E2S		E4S		N1SR		N2S		N3S		N4S		NE1S		S10S		S11S		SE1D		SE1S		W1S	
	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
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
2015 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
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 measurement available

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

**Table 2A. Field Parameter, General Chemistry, Inorganic Results, and Dicamba - Aquifer 1
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Location	C1S				E1D				E1S				E2S				E4S			
		Units	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315
Field Measurements																					
Dissolved Oxygen	mg/L	—	3.2	3.4	3.3	1.3	1.1	5.2	1.3	6.0	5.5	6.3	6.0	1.3	1.2	2.2	0.5	2.6	2.8	2.0	2.8
ORP	mV	—	256	201	141	238	156	175	63	234	150	186	92	209	6	183	111	161	-2	221	153
pH	SU	—	6.51	6.50	6.40	7.19	7.05	7.16	6.84	7.71	6.92	6.93	6.74	7.16	6.71	6.88	6.68	7.25	7.02	6.99	6.91
Specific Conductivity	µS/cm	—	964	1028	1144	1640	1624	163	1660	1149	1140	1119	1141	1356	1352	1333	1356	1064	1091	1108	1099
Temperature	deg-C	—	13.6	14.2	13.7	11.2	11.4	12.6	11.8	11.1	11.2	12.1	12.0	12.0	12.3	13.6	12.8	10.5	10.6	11.4	11.2
Turbidity	NTU	—	5.0	1.0	2.9	1.0	1.0	1.0	0.1	3.0	0.0	0.1	4.4	4.0	1.0	3.0	0.7	5.0	1.0	1.0	4.0
General Chemistry																					
Alkalinity, Total	mg/L	—	330	344	359	814	796	801	860	404	393	391	392	711	686	677	698	530	536	539	575
Alkalinity, Bicarbonate	mg/L	—	330	344	359	814	796	801	860	404	393	391	392	711	686	677	698	530	536	539	575
Ammonia	mg-N/L	—	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Calcium	mg/L	—	100.4	120.7	148.9	146	144.6	164.8	174.3	122.3	123.8	133.6	139	168.3	161.9	174.7	179.1	132.4	124.4	141.8	149.4
Chemical Oxygen Demand	mg/L	—	17	22	10	18	14	8 U	8 U	17	8	23	8 U	9	8 U	8 U	8 U	8 U	8 U	8	8 U
Chloride	mg/L	—	7	6.4	5.6	87	84.1	81.7	74.5	94	94.3	90.8	87.5	25	24.5	23.9	21.8	43	43.5	41.4	37.9
Fluoride	mg/L	—	0.1 U	0.1 U	0.1 U	0.1 U	0.12	0.11	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.14	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Magnesium	mg/L	—	45.8	52	62.5	98.1	99.9	106	111.7	46.4	49	50.5	51.9	67.9	68.2	69.5	7.2	49.4	48.8	52.7	54.9
Potassium	mg/L	—	5.1	5.2	5.4	7.9	8.3	8.6	8.5	5.7	6.3	6.3	6.2	7.4	7.8	7.5	7.1	5.9	5.9	5.8	6.1
Sodium	mg/L	—	27.4	27.6	29.7	39.5	42.1	44.3	47	25.6	27.3	28	29.4	30.5	31.7	32.3	33.9	29.4	29.9	30.9	32.2
Sulfate	mg/L	—	167	211	271	47	48.2	48.5	48.1	41	41.5	41.7	40.7	60	62.1	65	64.9	37	38.5	39.4	37.4
Total Dissolved Solids	mg/L	—	644	716	798	1014	966	976	932	702	666	668	628	874	848	843	832	670	646	676	654
Total Nitrate/Nitrite	mg-N/L	—	6.53	5.43	6.6	0.54	0.27	0.19	0.16	12	11.8	11.9	12.1	6.27	6.65	8.01	8.32	0.45	0.5	0.5	0.6
Total Organic Carbon	mg/L	—	6.01	6.07	6.63	1.28	1.25	1.07	1.07	1.06	1.02	0.94	1	1.22	1.08	0.96	1.33	0.96	0.81	0.69	0.61
Metals																					
Antimony	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
Arsenic	mg/L	—	0.001	0.001	0.0005 U	0.004	0.004	0.004	0.004	0.001	0.001	0.0012	0.001	0.002	0.001	0.0014	0.001	0.001	0.003	0.0023	0.002
Barium	mg/L	—	0.036	0.036	0.041	0.044	0.047	0.043	0.044	0.037	0.04	0.036	0.035	0.054	0.069	0.065	0.06	0.067	0.047	0.047	0.045
Beryllium	mg/L	—	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	—	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.001	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	—	0.007	0.009	0.009	0.001 U	0.001 U	0.0008	0.001 U	0.011	0.012	0.013	0.014	0.001 U	0.001 U	0.0008	0.001 U	0.001 U	0.006	0.006	0.007
Cobalt	mg/L	—	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.0008	0.001 U	0.001 U	0.001 U	0.00016	0.001 U	0.001 U	0.001	0.0014	0.001	0.001	0.001 U	0.00016	0.001 U
Copper	mg/L	—	0.003	0.0027	0.004	0.001 U	0.0015	0.0012	0.002	0.001 U	0.001 U	0.001	0.001	0.001	0.001	0.0026	0.001	0.001 U	0.001 U	0.0008	0.001
Iron	mg/L	—	0.05	0.05	0.05 U	0.05 U	0.005 J	0.008	0.05 U	0.05 U	0.05 U	0.004	0.05 U	0.14	0.03 J	0.14	0.05 U	0.05 U	0.05 U	0.01	0.05 U
Lead	mg/L	—	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00015	0.0005 U	0.0005 U	0.00019	0.0005 U	0.0005 U
Manganese	mg/L	—	0.003	0.002	0.003	0.04	0.037	0.038	0.042	0.001 U	0.001 U	0.0007	0.026	0.059	0.453	0.477	0.396	0.484	0.001 U	0.002	0.002
Nickel	mg/L	—	0.009	0.008	0.008	0.009	0.006	0.0065	0.006	0.005	0.004	0.0035	0.005	0.011	0.005	0.006	0.006	0.008	0.002	0.0018	0.001
Selenium	mg/L	—	0.001 U	0.0003	0.001 U	0.001	0.001 U	0.0006	0.001	0.001 U	0.001 U	0.0004	0.001	0.001 U	0.001 U	0.00035	0.001 U	0.001 U	0.001 U	0.0004	0.001 U
Silver	mg/L	—	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	—	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	—	0.002	0.0025	0.002	0.009	0.006	0.006	0.007	0.001 U	0.003	0.0034	0.004	0.009	0.002	0.0026	0.002	0.003	0.005	0.006	0.006
Zinc	mg/L	—	0.003	0.0026	0.0045	0.0025 U	0.0025 U	0.0032	0.003	0.0025 U	0.0025 U	0.0017	0.0025 U	0.0025 U	0.003	0.005	0.003	0.003	0.0025 U	0.0056	0.0025 U
Herbicides																					
Dicamba	µg/L	—	—	—	—	—	—	—	—	8.9	5.6	5.0	4.4	—	—	—	—	—	—	—	—

Notes:
deg-C = degrees Celsius
mg/L = milligrams per liter
mV = millivolts
mg N/L = milligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nephelometric 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
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Location	N1SR				N2S				N3S				NE1S				S10S			
		Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415
Field Measurements																					
Dissolved Oxygen	mg/L	3.3	3.2	3.9	3.4	—	—	5.1	5.0	1.4	4.8	5.2	5.3	5.5	7.0	5.5	5.0	1.0	1.1	1.9	1.2
ORP	mV	333	184	175	111	—	—	160	132	-81	53	40	30	296	32	177	164	233	168	109	142
pH	SU	5.66	6.56	6.37	6.25	—	—	6.83	6.70	7.10	7.16	7.09	7.23	7.02	6.74	7.19	7.01	6.86	6.76	6.80	6.62
Specific Conductivity	µS/cm	416	446	420	443	—	—	160	159	1128	1075	1111	1056	754	755	734	778	1371	1399	1367	1434
Temperature	deg-C	12.1	13.0	14.3	14.3	—	—	18.4	14.1	11.9	11.9	13.3	12.9	12.0	12.4	14.1	12.8	13.9	15.5	18.1	14.9
Turbidity	NTU	4.0	0.1	1.0	7.3	—	—	5.0	0.4	14.0	1.0	2.0	0.8	1.0	1.0	2.0	4.6	2.0	1.0	3.0	1.1
General Chemistry																					
Alkalinity, Total	mg/L	205	214	202	212	—	—	773	821	542	489	489	486	336	322	324	330	448	428	430	436
Alkalinity, Bicarbonate	mg/L	205	214	202	212	—	—	773	821	542	489	489	486	336	322	324	330	448	428	430	436
Ammonia	mg-N/L	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.01 U	0.01 U	0.1	0.02	0.01 U	0.01 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Calcium	mg/L	31.5	31.5	30.8	35.1	—	—	194.4	194.6	140.8	128	136.3	144.6	97.7	94.5	103.4	105.2	138.1	126.9	144.4	149.9
Chemical Oxygen Demand	mg/L	8 U	8 U	8	8 U	—	—	8	8 U	10	8	8 U	8 U	8 U	8 U	8 U	8 U	21	9	9	8 U
Chloride	mg/L	3.08	4.4	3.5	3.3	—	—	34.8	31.6	37	38.5	36	34.4	16	15.4	15.4	15	57	58.9	58.8	55.1
Fluoride	mg/L	0.12	0.12	0.13	0.1 U	—	—	0.1 U	0.26	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
Magnesium	mg/L	29.6	31.6	29.8	32.3	—	—	99.7	98.7	50	48.8	49.9	50.9	31.7	32.1	33.3	33.9	82.7	79.8	85.1	87.5
Potassium	mg/L	2.9	3	2.3	2.8	—	—	9.6	9	6.2	6.2	5.7	5.9	5	5.4	5.4	5.2	6.9	6.9	7.1	6.8
Sodium	mg/L	13.2	13.2	12.2	13	—	—	33.1	33.8	27	27.6	27.7	28.5	16.2	17.1	17.6	18	29.3	28.9	30.1	31.5
Sulfate	mg/L	11	14.8	10.9	13.1	—	—	110	110	41	44.6	45	44.2	55	56.6	60.1	60.4	89	93.7	101	103
Total Dissolved Solids	mg/L	267	286	254	260	—	—	1005	966	704	660	681	638	493	488	506	466	854	846	879	862
Total Nitrate/Nitrite	mg-N/L	3.51	3.95	2.28	4.55	—	—	5.64	6.11	5.14	5.55	6.02	6.06	5.75	6.44	5.2	5.19	34	46.7	42.2	44.7
Total Organic Carbon	mg/L	1.76	1.83	1.76	1.55	—	—	1.64	1.53	1.44	1.1	0.92	0.83	0.83	0.88	0.76	0.71	1.67	1.47	1.51	1.46
Metals																					
Antimony	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	—	—	0.001 U	0.001 U	0.001	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
Arsenic	mg/L	0.002	0.002	0.0017	0.002	—	—	0.00109	0.001	0.008	0.0026	0.0019	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.0017	0.002
Barium	mg/L	0.014	0.015	0.013	0.013	—	—	0.054	0.054	0.03	0.04	0.035	0.034	0.03	0.034	0.03	0.029	0.038	0.04	0.038	0.037
Beryllium	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	—	—	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	0.00025 U	0.00025 U	0.00025 U	0.00025 U	—	—	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	0.003	0.002	0.003	0.003	—	—	0.00095	0.001 U	0.001 U	0.01	0.011	0.011	0.003	0.003	0.004	0.004	0.001 U	0.001 U	0.001	0.001 U
Cobalt	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	—	—	0.0002	0.001 U	0.001 U	0.001 U	0.00012	0.001 U	0.001 U	0.001 U	0.0003	0.001 U	0.001 U	0.001 U	0.00035	0.001 U
Copper	mg/L	0.001 U	0.002	0.0015	0.001	—	—	0.0019	0.002	0.001 U	0.001	0.0017	0.001	0.004	0.006	0.004	0.004	0.001 U	0.0013	0.0015	0.002
Iron	mg/L	0.05 U	0.05 U	0.007	0.05 U	—	—	0.01	0.05 U	0.2	0.08 U	0.03	0.05	0.05 U	0.09	0.05	0.05 U	0.05 U	0.01 J	0.04	0.05 U
Lead	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	—	—	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00011	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Manganese	mg/L	0.001	0.002	0.002	0.001	—	—	0.006	0.005	0.045	0.003	0.001	0.002	0.003	0.019	0.009	0.004	0.07	0.072	0.076	0.074
Nickel	mg/L	0.006	0.007	0.007	0.006	—	—	0.0053	0.005	0.002	0.003	0.0014	0.002	0.007	0.008	0.006	0.005	0.009	0.009	0.0083	0.007
Selenium	mg/L	0.001 U	0.001 U	0.0002	0.001 U	—	—	0.00045	0.001 U	0.001 U	0.001 U	0.0005	0.001 U	0.001 U	0.001 U	0.0003	0.001 U	0.001 U	0.001 U	0.0003	0.001 U
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	—	—	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.00036 U	0.00036 U	0.00036 U	0.00036 U	—	—	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	0.005	0.004	0.004	0.004	—	—	0.0045	0.004	0.001 U	0.005	0.005	0.005	0.006	0.005	0.005	0.005	0.006	0.004	0.004	0.004
Zinc	mg/L	0.0025 U	0.0025 U	0.0015	0.0025 U	—	—	0.002	0.0027	0.005	0.0025	0.0018	0.0025 U	0.0025 U	0.004	0.002	0.002	0.0025 U	0.0025 U	0.0018	0.0026
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
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Location	S11S				SE1D				SE1S			
	Units	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415
Field Measurements													
Dissolved Oxygen	mg/L	0.26	0.2	0.96	0.32	0.56	0.77	1.37	1.11	4.55	5.63	5.47	4.69
ORP	mV	73	-10	-150	-154	89	-22	-113	-94	323	50	183	79
pH	SU	7.09	7.64	7.57	7.54	6.43	7.61	7.78	7.54	6.29	7.07	7.45	7.24
Specific Conductivity	µS/cm	890	885	908	901	916	922	938	936	827	827	842	834
Temperature	deg-C	10.0	10.0	11.3	10.5	10.1	10.2	12.0	11.0	10.1	10.2	11.1	11.2
Turbidity	NTU	3.0	1.0	1.0	5.7	1.0	2.0	2.0	2.6	1.0	2.0	3.0	1.0
General Chemistry													
Alkalinity, Total	mg/L	385	375	373	384	399	387	388	400	326	320	319	330
Alkalinity, Bicarbonate	mg/L	385	375	373	384	399	387	388	400	326	320	319	330
Ammonia	mg-N/L	0.01	0.01	0.02	0.01	0.03	0.04	0.03	0.03	0.01 U	0.01 U	0.01 U	0.01 U
Calcium	mg/L	78.9	73	79	82.7	71.1	65.5	71.2	76.8	73.6	66.4	73.9	78
Chemical Oxygen Demand	mg/L	10	10	22	8 U	13	8	8 U	8 U	8 U	8	8 U	8 U
Chloride	mg/L	58	57.2	58	55.5	62	63.6	64.3	61.9	58	59.5	59.8	57.6
Fluoride	mg/L	0.15	0.16	0.16	0.11	0.19	0.19	0.18	0.14	0.17	0.17	0.16	0.14
Magnesium	mg/L	52.6	50.6	52.1	53.6	60.7	58.8	61.2	65	47.2	44.7	47.5	49.3
Potassium	mg/L	6.7	6.6	6.1	6.3	7.9	8	7.6	7.9	5.8	5.7	5.5	5.7
Sodium	mg/L	33.3	33.2	33.4	35	33.9	33.9	34.2	37.2	30.5	29.7	31	32.7
Sulfate	mg/L	29	29.2	30	29.6	26	26.8	27	26.8	37	37.9	38.6	38.5
Total Dissolved Solids	mg/L	529	524	527	506	535	522	532	550	491	504	486	498
Total Nitrate/Nitrite	mg-N/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	1.12	1.13	1.16	1.24
Total Organic Carbon	mg/L	1.82	1.81	1.78	1.66	1.79	1.68	1.7	1.74	1.54	1.47	1.51	1.47
Metals													
Antimony	mg/L	0.001 U	0.002	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
Arsenic	mg/L	0.006	0.006	0.005	0.005	0.01	0.0106	0.0096	0.011	0.005	0.005	0.005	0.005
Barium	mg/L	0.035	0.036	0.034	0.034	0.048	0.051	0.047	0.048	0.024	0.025	0.023	0.024
Beryllium	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	0.001 U	0.001 U	0.0008	0.001 U	0.001 U	0.001 U	0.003	0.001	0.008	0.008	0.009	0.009
Cobalt	mg/L	0.001 U	0.001 U	0.00017	0.001 U	0.001 U	0.001 U	0.00075	0.001 U	0.001 U	0.001 U	0.00012	0.001 U
Copper	mg/L	0.001 U	0.001	0.0007	0.001 U	0.001	0.001	0.0028	0.002	0.001 U	0.001	0.0017	0.001 U
Iron	mg/L	0.14	0.12	0.14	0.14	0.48	0.23	1.18	0.71	0.05 U	0.008 J	0.08	0.05 U
Lead	mg/L	0.0005 U	0.0005 U	0.00014	0.0005 U	0.0005 U	0.0005 U	0.00033	0.0005 U	0.0005 U	0.0005 U	0.0002	0.0005 U
Manganese	mg/L	0.184	0.183	0.194	0.215	0.179	0.183	0.204	0.215	0.001 U	0.001 U	0.002	0.001 U
Nickel	mg/L	0.002	0.002	0.0015	0.0005 U	0.004	0.003	0.007	0.005	0.002	0.002	0.002	0.001
Selenium	mg/L	0.001 U	0.001 U	0.0004	0.001 U	0.001 U	0.001 U	0.0003	0.001 U	0.002	0.001	0.0014	0.002
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	0.001	0.001 U	0.0005	0.001 U	0.001	0.001 U	0.002	0.001	0.003	0.004	0.004	0.005
Zinc	mg/L	0.0025 U	0.003	0.005	0.0037	0.004	0.0025 U	0.0052	0.004	0.0025 U	0.0025 U	0.0024	0.007
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
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E2D				E3D				E4D				N1D				N2D			
		Units	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315
Field Measurements																					
Dissolved Oxygen	mg/L	1.6	0.2	2.8	0.8	1.6	0.8	2.6	2.4	1.1	0.7	1.0	1.7	2.4	5.0	1.3	2.3	1.0	0.9	0.8	0.5
ORP	mV	221	24	127	135	175	112	88	21	-39	-147	-220	-180	161	-74	-16	-24	79	-147	19	-41
pH	SU	7.09	6.50	6.83	6.51	7.12	7.76	7.68	7.45	7.57	8.00	8.12	7.83	5.97	7.19	7.17	7.15	6.96	6.87	6.94	6.82
Specific Conductivity	µS/cm	1820	799	180	181	735	737	718	752	542	544	524	550	1510	1490	155	1530	1165	1181	1210	1211
Temperature	deg-C	12.3	12.1	14.0	13.0	10.9	10.9	14.8	11.6	10.3	10.7	12.5	11.9	11.1	12.0	14.2	15.0	12.4	13.5	15.9	13.1
Turbidity	NTU	3.0	1.0	1.0	0.7	4.0	0.0	1.0	3.5	18.0	6.3	5.0	2.2	1.0	1.0	1.0	1.3	4.0	2.0	1.0	1.0
General Chemistry																					
Alkalinity, Total	mg/L	1050	395	1060	1230	354	349	348	355	240	246	244	249	562	546	544	574	521	525	514	538
Alkalinity, Bicarbonate	mg/L	1050	395	1060	1230	354	349	348	355	240	246	244	249	562	546	544	574	521	525	514	538
Ammonia	mg-N/L	0.01 U	0.29	0.01 U	0.01 U	0.03	0.03	0.04	0.02	0.1	0.08	0.07	0.06	0.02	0.02	0.01	0.01	0.01 U	0.01 U	0.01 U	0.01 U
Calcium	mg/L	218	78.6	232.2	230.1	67.8	63.8	69.1	74	33.1	34.5	38.5	37.4	132.4	122.8	128	138.7	115.1	106.6	115.3	119.6
Chemical Oxygen Demand	mg/L	10	8 U	10	8 U	10	8 U	11	8 U	23	17	20	11	22	14	12	14	17	10	14	12
Chloride	mg/L	22	16	23.8	24.4	34	33.7	33	31.5	31	29.8	29.5	27.8	121	123	129	122	67	68	65.9	63.8
Fluoride	mg/L	0.1 U	0.13	0.1 U	0.17	0.15	0.16	0.14	0.12	0.22	0.21	0.2	0.15	0.11	0.19	0.1	0.1 U	0.11	0.11	0.11	0.1 U
Magnesium	mg/L	102.5	37.1	109.8	107.3	42.3	41.4	42.3	44.6	24.3	25.5	26.9	26.5	105.6	103	102.5	107.7	74.3	72.8	73.7	75.6
Potassium	mg/L	9	5.3	9.4	8.8	6.4	6.5	6.4	6.3	9.8	10.2	10.1	9.8	10.2	10.4	9.5	9.7	8.2	8.5	8.3	8
Sodium	mg/L	36.2	26.1	41	40.8	25.1	25.5	25.6	27.2	40.7	39.4	39.2	41.3	47	47.3	46.2	49.8	39.6	40.1	40	42.1
Sulfate	mg/L	49	17.7	54.4	57.5	16	15.7	15.9	15.8	11	12.6	12.2	12.7	130	134	138	139	61	61	63.8	64.3
Total Dissolved Solids	mg/L	1126	452	1129	1106	436	428	438	428	348	330	328	334	932	913	958	900	723	716	726	706
Total Nitrate/Nitrite	mg-N/L	2.75	0.1 U	2.67	3.28	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	0.01 U	0.51	0.1 U	2.21	2.69	2.15	2.44
Total Organic Carbon	mg/L	1.68	1.86	1.71	1.69	1.05	0.94	0.88	0.89	3.9	3.27	3.16	3.37	3.28	3.36	3.25	3.05	1.62	1.69	1.58	1.69
Metals																					
Antimony	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
Arsenic	mg/L	0.002	0.0007	0.0016	0.002	0.006	0.007	0.006	0.006	0.003	0.014	0.014	0.014	0.005	0.005	0.005	0.005	0.003	0.003	0.0027	0.003
Barium	mg/L	0.055	0.029	0.048	0.052	0.03	0.032	0.029	0.029	0.045	0.039	0.037	0.034	0.11	0.123	0.105	0.108	0.029	0.033	0.028	0.028
Beryllium	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	0.00025 U	0.00025 U	0.00096	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	0.001 U	0.001	0.0002	0.001 U	0.001 U	0.001 U	0.00094	0.001 U	0.005	0.001 U	0.0026	0.001 U	0.001 U	0.001 U	0.0009	0.001 U	0.001 U	0.001 U	0.00091	0.001 U
Cobalt	mg/L	0.001 U	0.001 U	0.0005	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.00065	0.001 U	0.001 U	0.001 U	0.0005	0.001 U	0.001 U	0.001 U	0.00017	0.001 U
Copper	mg/L	0.001	0.0016	0.0024	0.002	0.001 U	0.001 U	0.0004	0.001 U	0.001 U	0.0026	0.003	0.001	0.001 U	0.001 U	0.0011	0.001	0.001 U	0.001	0.0019	0.001
Iron	mg/L	0.05 U	0.88	0.03	0.05 U	0.05 U	0.03 J	0.02	0.05 U	0.74	0.7	1.36	0.46	0.27	0.28	0.34	0.31	0.05 U	0.01 J	0.006	0.05 U
Lead	mg/L	0.0005 U	0.0009	0.0007	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0008	0.00076	0.0005 U	0.0005 U	0.0005 U	0.00004	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Manganese	mg/L	0.059	0.179	0.057	0.068	0.234	0.259	0.241	0.253	0.002	0.074	0.084	0.075	0.178	0.177	0.253	0.224	0.019	0.016	0.018	0.018
Nickel	mg/L	0.011	0.011	0.01	0.009	0.002	0.002	0.0013	0.0005 U	0.003	0.003	0.0033	0.002	0.013	0.012	0.011	0.011	0.007	0.007	0.006	0.005
Selenium	mg/L	0.001 U	0.001 U	0.0004	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	0.001	0.001	0.0013	0.001	0.001 U	0.001 U	0.0008	0.001
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	0.009	0.001	0.006	0.007	0.001 U	0.001 U	0.0003	0.001 U	0.006	0.001	0.003	0.001 U	0.001 U	0.001 U	0.00033	0.001 U	0.004	0.003	0.003	0.003
Zinc	mg/L	0.003	0.062	0.0044	0.003	0.0025 U	0.0025 U	0.0015	0.0025 U	0.0025 U	0.006	0.006	0.004	0.0025 U	0.0025 U	0.0026	0.0027	0.0025 U	0.0025 U	0.0037	0.0025 U

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

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	N3D				N5D				N5S				NE1D				S11D			
	Units	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415
Field Measurements																					
Dissolved Oxygen	mg/L	6.2	1.2	1.3	1.3	0.9	0.8	0.7	0.5	0.8	1.1	1.1	1.4	1.3	1.2	1.2	1.8	0.8	1.0	2.2	1.4
ORP	mV	70	270	26	14	150	-83	-30	-27	254	-63	137	79	265	-101	123	92	84	-52	-90	-74
pH	SU	7.05	7.40	7.53	7.55	7.14	7.28	7.30	7.32	7.19	7.30	7.35	7.37	7.05	7.20	7.42	7.20	7.10	7.50	7.63	7.66
Specific Conductivity	µS/cm	620	628	645	617	1433	1443	1467	1411	746	750	759	731	658	659	637	672	904	913	933	887
Temperature	deg-C	12.5	12.2	14.0	13.2	10.0	10.4	11.5	10.8	10.3	10.4	11.0	10.9	12.0	12.8	14.1	12.9	10.0	10.1	10.9	10.7
Turbidity	NTU	5.0	5.0	2.0	0.7	1.0	2.0	1.0	0.3	3.0	4.0	1.0	0.1	2.0	1.0	2.0	6.6	2.0	1.0	5.0	3.5
General Chemistry																					
Alkalinity, Total	mg/L	269	264	262	271	632	623	615	669	321	315	311	317	279	276	278	284	375	368	368	367
Alkalinity, Bicarbonate	mg/L	269	264	262	271	632	623	615	669	321	315	311	317	279	276	278	284	375	368	368	367
Ammonia	mg-N/L	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01	0.01 U	0.08	0.09	0.09	0.06
Calcium	mg/L	68.9	63.6	72.2	75.4	123.2	117.9	127.8	133.3	67.1	63.3	68.1	71.8	62	59	63.1	65.1	76.2	70.1	76.5	80.8
Chemical Oxygen Demand	mg/L	8 U	8	8 U	8 U	28	11	10	8 U	14	8 U	8 U	8 U	10	8 U	8 U	8 U	17	10	8 U	8
Chloride	mg/L	36	35.4	35	33.5	107	108	109	105	42	42.1	41.4	38.9	37	37	36.5	34.4	70	68.7	70	67.2
Fluoride	mg/L	0.1 U	0.1	0.1 U	0.1 U	0.12	0.38	0.1	0.1 U	0.16	0.17	0.16	0.14	0.13	0.15	0.13	0.1 U	0.16	0.18	0.18	0.13
Magnesium	mg/L	25.3	24.6	26.5	27	94.5	94.1	97.7	99.9	42	40.2	42.7	43.9	35.5	35.7	36.3	36.4	53.5	51.9	54.3	55.5
Potassium	mg/L	5.7	5.9	5.6	5.7	10.1	10.5	10.2	10.1	6.5	6.5	6.2	6.3	5.9	6.2	6.1	5.8	7.3	7.4	7	6.9
Sodium	mg/L	20.1	20.2	21.3	21.8	43.8	45.2	45.9	48	26	25.5	26.5	27.3	25.3	26.2	26.2	27.1	35.2	35	35.7	36.9
Sulfate	mg/L	24	23.2	24	23.5	52	54.7	55.4	55.9	34	34.8	35.1	34.1	35	36	36.6	36.1	30	29.9	31	30.2
Total Dissolved Solids	mg/L	396	378	392	364	862	862	846	826	446	438	431	416	398	397	406	382	544	544	545	510
Total Nitrate/Nitrite	mg-N/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	0.02	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total Organic Carbon	mg/L	0.66	0.67	0.65	0.7	2.45	2.14	2.21	2.18	1.04	0.96	0.92	0.91	0.8	0.79	0.66	0.66	1.86	1.86	1.92	1.88
Metals																					
Antimony	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
Arsenic	mg/L	0.014	0.009	0.008	0.008	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.007	0.007	0.0066	0.0005 U	0.003	0.008	0.007	0.007
Barium	mg/L	0.035	0.037	0.029	0.029	0.029	0.097	0.084	0.085	0.038	0.03	0.027	0.027	0.021	0.022	0.02	0.021	0.085	0.046	0.043	0.042
Beryllium	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	0.001 U	0.001 U	0.0009	0.001 U	0.001 U	0.001 U	0.0009	0.001 U	0.009	0.001 U	0.00097	0.001 U	0.001 U	0.001 U	0.001	0.001	0.001 U	0.001 U	0.001	0.001 U
Cobalt	mg/L	0.001 U	0.001	0.00014	0.001 U	0.001 U	0.001	0.0004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003	0.001 U	0.001 U	0.001 U	0.0003	0.001 U
Copper	mg/L	0.002	0.001 U	0.0007	0.001 U	0.001	0.001	0.0013	0.001	0.001	0.001 U	0.0012	0.001 U	0.001 U	0.001	0.00075	0.003	0.001 U	0.001 U	0.0013	0.001
Iron	mg/L	0.25	0.47	0.17	0.16	0.05 U	0.03	0.03	0.05 U	0.05 U	0.008 J	0.04	0.05 U	0.06	0.04 J	0.08	0.29	0.47	0.43	0.56	0.54
Lead	mg/L	0.0005 U	0.0006	0.0018	0.0005 U	0.0005 U	0.0005	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00024	0.0005 U
Manganese	mg/L	0.065	0.154	0.065	0.057	0.001	0.235	0.251	0.265	0.021	0.001 U	0.002	0.001	0.013	0.014	0.016	0.023	0.219	0.155	0.166	0.155
Nickel	mg/L	0.002	0.003	0.0012	0.001	0.002	0.009 U	0.011	0.01	0.003	0.002	0.002	0.001	0.003	0.004	0.003	0.002	0.01	0.002	0.002	0.002
Selenium	mg/L	0.001 U	0.001 U	0.00024	0.001 U	0.001 U	0.001	0.0009	0.002	0.001 U	0.001 U	0.00036	0.001 U	0.001 U	0.001 U	0.0003	0.001 U	0.001 U	0.001 U	0.0006	0.001
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	0.002	0.001 U	0.0002	0.001 U	0.002	0.001 U	0.0015	0.001	0.004	0.001 U	0.001	0.001 U	0.003	0.0015	0.002	0.002	0.002	0.001 U	0.0007	0.001 U
Zinc	mg/L	0.005	0.0025 U	0.005	0.0025 U	0.003	0.003 U	0.002	0.003	0.003	0.0025 U	0.0018	0.0025 U	0.0025 U	0.0025 U	0.002	0.007	0.0025 U	0.0025 U	0.0033	0.0025 U

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

**Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Location	W1D				W2S			
	Units	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415
Field Measurements									
Dissolved Oxygen	mg/L	6.3	0.8	1.2	0.8	6.0	6.8	6.0	6.1
ORP	mV	330	17	-96	-98	367	317	151	161
pH	SU	5.53	7.85	7.83	7.78	6.19	7.01	7.09	6.92
Specific Conductivity	µS/cm	982	973	996	941	901	942	919	925
Temperature	deg-C	10.5	10.4	11.1	10.7	9.7	10.0	11.1	10.6
Turbidity	NTU	4.0	1.0	1.0	1.7	2.0	1.0	1.0	1.0
General Chemistry									
Alkalinity, Total	mg/L	426	411	408	409	377	378	370	380
Alkalinity, Bicarbonate	mg/L	426	411	408	409	377	378	370	380
Ammonia	mg-N/L	0.08	0.15	0.14	0.14	0.01 U	0.01 U	0.02	0.01 U
Calcium	mg/L	60.2	52	57.4	61.3	80	82.1	89.9	93.2
Chemical Oxygen Demand	mg/L	16	10	10	8 U	8	9	8 U	8 U
Chloride	mg/L	67	66.5	67.3	64.4	66	44.7	43.7	42.4
Fluoride	mg/L	0.17	0.18	0.16	0.12	0.14	0.17	0.14	0.11
Magnesium	mg/L	74.4	67.7	71	74.5	44	47.1	48.7	50.7
Potassium	mg/L	10.1	9.8	9.5	9.5	3.9	4.2	4.1	4.2
Sodium	mg/L	44.3	42.1	43.2	45.9	31.5	36.9	34.2	34.8
Sulfate	mg/L	32	32.7	33.5	33.2	41	53.3	53.2	53.5
Total Dissolved Solids	mg/L	572	568	552	538	560	546	545	552
Total Nitrate/Nitrite	mg-N/L	0.28	0.1 U	0.1 U	0.1 U	3.72	3.6	3.75	3.45
Total Organic Carbon	mg/L	2.11	1.9	2	1.96	1.6	1.62	1.53	1.63
Metals									
Antimony	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
Arsenic	mg/L	0.006	0.007	0.007	0.0072	0.002	0.002	0.0016	0.002
Barium	mg/L	0.07	0.07	0.063	0.065	0.027	0.029	0.026	0.027
Beryllium	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	0.001	0.001 U	0.001	0.001 U	0.002	0.002	0.0025	0.002
Cobalt	mg/L	0.001 U	0.001 U	0.0001	0.001 U	0.001 U	0.001 U	0.0001	0.001 U
Copper	mg/L	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001	0.001	0.001
Iron	mg/L	0.34	0.13	0.14	0.15	0.06	0.03 J	0.009	0.05 U
Lead	mg/L	0.001	0.0005 U	0.00008	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Manganese	mg/L	0.02	0.142	0.141	0.158	0.004	0.002	0.0005	0.001
Nickel	mg/L	0.001	0.001	0.001	0.001	0.003	0.002	0.002	0.002
Selenium	mg/L	0.001 U	0.001 U	0.00036	0.001	0.001	0.001	0.001	0.001
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	0.001 U	0.001 U	0.0003	0.001 U	0.004	0.003	0.003	0.003
Zinc	mg/L	0.004	0.0025 U	0.0036	0.0025 U	0.0025 U	0.0025 U	0.0015	0.0025 U

Notes:

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

**Table 2C. Field Parameter, General Chemistry, and Inorganic Results - Water Supply Wells
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Location	DNR				DOT				S7				STP				WR1			
		Units	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315
Field Measurements																					
Dissolved Oxygen	mg/L	0.8	2.8	2.3	2.9	1.8	1.0	0.7	1.2	1.9	3.4	1.5	3.9	1.6	2.2	3.2	1.8	2.2	3.9	3.0	2.1
ORP	mV	84	-60	-36	-67	118	-163	-115	-98	125	-62	98	44	12	-64	-79	-115	378	-31	200	175
pH	SU	6.72	7.53	7.41	7.38	7.52	7.81	7.91	7.74	7.55	7.90	7.87	7.72	7.47	8.43	8.51	8.10	6.25	7.26	7.28	7.15
Specific Conductivity	µS/cm	836	847	858	860	646	644	654	668	691	681	710	728	565	535	534	564	832	847	819	861
Temperature	deg-C	9.7	11.3	21.0	12.3	8.8	10.7	13.8	13.1	10.5	12.8	21.7	11.9	11.1	11.8	15.2	12.0	7.9	11.0	16.2	12.1
Turbidity	NTU	1.0	1.0	1.0	1.2	6.0	31	1.0	0.9	11.0	3.0	4.0	1.3	1.0	28.0	3.0	7.5	3.0	1.0	2.0	0.7
General Chemistry																					
Alkalinity, Total	mg/L	356	350	350	357	313	311	309	319	323	317	317	327	237	236	234	239	337	332	333	343
Alkalinity, Bicarbonate	mg/L	356	350	350	357	313	311	309	319	323	317	317	327	237	236	234	239	337	332	333	343
Ammonia	mg-N/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01	0.03	0.03	0.04	0.2	0.26	0.28	0.01 U	0.07	0.06	0.06	0.05	0.01 U	0.01 U	0.01 U	0.01 U
Calcium	mg/L	69.1	70	78.9	81.5	52.3	51.5	58.3	60.5	38	34.7	38.2	40	42.8	36.8	41.9	45.9	70.1	72.1	80.4	83.6
Chemical Oxygen Demand	mg/L	13	8 U	8 U	8 U	10	8 U	8 U	8 U	12	8 U	8 U	8 U	32	30	16	11	25	8 U	8 U	8 U
Chloride	mg/L	52	52.6	51.7	50.7	22	22.1	21.9	20.8	40	40.6	39.5	38.7	35	34.9	34.7	33.1	54	54.5	53.9	51.9
Fluoride	mg/L	0.17	0.18	0.14	0.13	0.16	0.16	0.17	0.13	0.13	0.14	0.12	0.1 U	0.16	0.16	0.13	0.13	0.12	0.13	0.13	0.1 U
Magnesium	mg/L	43.2	45.6	48.7	49.7	34.6	36.1	39.5	40.6	52.7	50.6	52.4	55.1	29.4	28.6	31.3	33.1	40	42.9	45.2	46.5
Potassium	mg/L	5.6	5.9	6.2	6	5.5	5.9	6	6.1	9.4	9.2	9.4	9	12.4	11.9	11.6	11.7	4.9	5.2	5.3	5.2
Sodium	mg/L	29.1	30.8	32.2	33.4	22.1	23	24.8	25.8	27	26.5	27.3	28.7	19.2	19.1	19.8	20.7	28.3	30.1	31.1	32.5
Sulfate	mg/L	39	40	40.2	41.3	20	21.1	21.4	21.2	12	12.7	13	15.6	13	5.8	8.5	11	40	41.3	41.9	41.7
Total Dissolved Solids	mg/L	526	498	503	500	398	394	394	398	424	410	408	396	340	310	310	288	516	498	500	474
Total Nitrate/Nitrite	mg-N/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	0.15	0.1 U	0.1 U	0.46	0.15	0.1 U	0.1 U	0.1 U	1.4	1.37	1.39	1.44
Total Organic Carbon	mg/L	1.46	1.45	1.45	1.5	0.77	0.79	0.85	0.75	1.53	1.24	1.21	1.27	0.9	1.03	0.87	0.94	1.54	1.47	1.39	1.53
Metals																					
Antimony	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002	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	0.003	0.001 U	0.001 U	0.001 U	0.001 U
Arsenic	mg/L	0.005	0.005	0.005	0.006	0.006	0.005	0.0005 U	0.006	0.003	0.003	0.003	0.004	0.04	0.071	0.081	0.062	0.003	0.003	0.003	0.003
Barium	mg/L	0.033	0.034	0.032	0.033	0.023	0.024	0.024	0.023	0.03	0.031	0.028	0.031	0.043	0.039	0.039	0.055	0.022	0.024	0.022	0.022
Beryllium	mg/L	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Cadmium	mg/L	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Chromium	mg/L	0.001 U	0.001 U	0.00077	0.001 U	0.001 U	0.001 U	0.0007	0.001 U	0.001 U	0.001 U	0.0009	0.001 U	0.003	0.036	0.015	0.025	0.001	0.001	0.0018	0.001
Cobalt	mg/L	0.001 U	0.001 U	0.0002	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	0.0004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Copper	mg/L	0.001 U	0.001	0.0015	0.001 U	0.001 U	0.001 U	0.0016	0.001 U	0.002	0.003	0.0045	0.008	0.195	0.042	0.355	0.614	0.053	0.065	0.053	0.047
Iron	mg/L	0.33	0.41	0.25	0.5	0.45	0.16	0.17	0.17	0.14	0.1	0.1	0.19	1.74	8.19	10.57	31.76	0.05 U	0.03 J	0.02	0.05 U
Lead	mg/L	0.0005 U	0.0005 U	0.00024	0.0005 U	0.0005 U	0.0005 U	0.00012	0.0005 U	0.0005	0.0005 U	0.00045	0.0009	0.014	0.044	0.031	0.044	0.0005 U	0.0007	0.0004	0.0005 U
Manganese	mg/L	0.099	0.104	0.102	0.115	0.126	0.128	0.141	0.146	0.032	0.032	0.036	0.006	0.1	0.124	0.128	0.339	0.001 U	0.001	0.0008	0.003
Nickel	mg/L	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.0005 U	0.001	0.0008	0.0003	0.002	0.003	0.021	0.0098	0.012	0.003	0.002	0.0016	0.002
Selenium	mg/L	0.001 U	0.001 U	0.0004	0.001 U	0.001 U	0.001 U	0.006	0.001 U	0.001 U	0.001 U	0.00015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001	0.001	0.001	0.001
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00006	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U	0.00036 U
Vanadium	mg/L	0.002	0.001 U	0.001	0.001	0.001 U	0.001 U	0.00019	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.003	0.002	0.0024	0.002
Zinc	mg/L	0.113	0.12	0.088	0.101	0.074	0.105	0.022	0.067	0.055	0.023	0.026	0.579	0.606	4.177	2.78	3.128	0.078	0.134	0.085	0.13

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

**Table 3C. Volatile Organic Compound Results - Water Supply Wells
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	DNR				DOT				S7				STP				WR1			
	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415	Q115	Q215	Q315	Q415
1,1 - Dichloroethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,1 - Dichloroethylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,1,1 - Trichloroethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,1,1,2 - Tetrachloroethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,1,2 - Trichloroethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,1,2,2 - Tetrachloroethane	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.2 U	
1,2 - Dibromoethane	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
1,2 - Dichlorobenzene (ortho)	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,2 - Dichloroethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,2 - Dichloropropane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,2,3 - Trichloropropane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,2-Dibromo-3-Chloropropane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
1,4 - Dichlorobenzene (para)	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
2-Butanone (MEK)	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	
2-Hexanone	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	
4-Methyl-2-Pentanone	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	
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	
Acrylonitrile	0.05 U	0.07 U	0.07 U	0.07 U	0.05 U	0.07 U	0.07 U	0.07 U	0.05 U	0.07 U	0.07 U	0.07 U	0.05 U	0.07 U	0.07 U	0.07 U	0.05 U	0.07 U	0.07 U	
Benzene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Bromochloromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Bromodichloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Bromoform	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Bromomethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Carbon Disulfide	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Carbon Tetrachloride	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
Chlorobenzene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Chlorodibromomethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Chloroethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Chloroform	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Chloromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
cis - 1,2 - Dichloroethylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
cis - 1,3 - Dichloropropene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Dibromomethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Ethylbenzene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Methyl Iodide	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	
Methylene Chloride	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Styrene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Tetrachloroethylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Toluene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Total Xylenes	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
trans - 1,2 - Dichloroethene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
trans - 1,3 - Dichloropropene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
trans - 1,4 - Dichloro-2-Butene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Trichloroethylene	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Trichlorofluoromethane	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
Vinyl Acetate	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	
Vinyl Chloride	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 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 5. Volatile Organic Compound Detections
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Edge Analytical	TestAmerica
1,1,1-Trichloroethane	C1S	1	4/27/2015	0.6	*
			7/8/2015	0.7	*
			10/27/2015	0.8	*
	E1S	1	7/10/2015	0.4	*
	N2S	1	7/8/2015	0.7	*
			10/27/2015	0.6	*
	S10S	1	1/27/2015	0.5	*
			4/28/2015	0.5	*
			7/9/2015	0.6	*
			10/27/2015	0.6	*
	E2D	2	1/29/2015	—	0.4
			7/10/2015	0.4	0.31
10/29/2015			0.4	0.4	
E7D	2	1/30/2015	0.7	0.96	
		4/29/2015	0.8	0.95	
		10/30/2015	0.9	1	
1,1-Dichloroethane	N2S	1	7/8/2015	0.9	*
			10/27/2015	0.8	*
	E2D	2	10/29/2015	—	0.073
	E7D	2	1/30/2015	2	2.3
			4/29/2015	2.3	2.2
10/30/2015			2.2	2.1	
1,1-Dichloroethylene	E7D	2	1/30/2015	—	2.9
			4/29/2015	—	2.4
1,2-Dibromo-3-Chloropropane	N3D	2	4/28/2015	0.4	*
	N5D	2	4/28/2015	0.4	*
	N5S	2	1/28/2015	0.4	*
Acrylonitrile	E6D	2	1/30/2015	0.098	*
			4/29/2015	0.094	*
Carbon Disulfide	E2D	2	4/29/2015	—	0.45
			4/28/2015	—	0.39
	E6D	2	10/30/2015	0.7	*
			4/29/2015	—	0.69
	E8D	2	1/30/2015	0.5	*
			4/29/2015	0.4	*
10/30/2015			0.7	*	
Chloroethane	E2D	2	1/29/2015	0.4	—
			7/10/2015	0.6	—
	E7D	2	1/30/2015	0.5	—
Chloroform	N5S	2	1/28/2015	0.4	*
			E7D	2	1/30/2015
Chloromethane	S11S	1	1/27/2015	0.5	*
	E7D	2	4/29/2015	—	0.69
			10/30/2015	—	0.17
S11D	2	1/27/2015	0.5	*	
cis-1,2-Dichloroethylene	C1S	1	4/27/2015	0.5	*
			4/27/2015	0.5	*
			7/8/2015	0.6	*
			10/27/2015	0.6	*

**Table 5. Volatile Organic Compound Detections
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Edge Analytical	TestAmerica
Methylene Chloride	E2D	2	1/29/2015	1	1.2
			4/29/2015	—	0.76
			7/10/2015	1.1	0.85
			10/29/2015	0.9	0.74
	E7D	2	1/30/2015	0.9	1.1
			4/29/2015	0.8	1
10/30/2015			0.9	0.48	
Toluene	E2S	1	10/29/2015	—	0.029
	N5S	2	1/28/2015	0.4	*
	E2D	2	10/29/2015	—	0.038
	E4D	2	10/29/2015	—	0.025
	E7D	2	10/30/2015	—	0.035
trans-1,3-Dichloropropene	N5S	2	1/28/2015	0.4	*
Trichlorofluoromethane	C1S	1	4/27/2015	5.9	*
			4/27/2015	6	*
			7/8/2015	5.8	*
			10/27/2015	6.2	*
	E1S	1	1/29/2015	2.3	*
			4/28/2015	2.2	*
			7/10/2015	2.7	*
			10/28/2015	2.4	*
	E2S	1	1/29/2015	1.8	1.8
			4/29/2015	2.3	1.2
			7/10/2015	2.3	1.5
			10/29/2015	2.2	1.4
	N1SR	1	10/27/2015	0.5	*
	N2S	1	7/8/2015	2.1	*
			10/27/2015	2.4	*
	N3S	1	1/28/2015	1.2	*
			4/28/2015	1.2	*
			7/7/2015	1.2	*
			10/26/2015	1.1	*
	S10S	1	1/27/2015	5.8	*
			4/28/2015	5.9	*
			7/9/2015	6	*
			10/27/2015	5.7	*
	E2D	2	1/29/2015	2.8	—
			4/29/2015	0.6	—
			7/10/2015	3.1	1.5
			10/29/2015	3	1.9
	E7D	2	1/30/2015	59.3	66
			4/29/2015	63.6	—
			10/30/2015	65.1	51
	N2D	2	1/27/2015	0.6	*
			4/27/2015	0.6	*
7/8/2015			0.5	*	
10/27/2015			0.8	*	

**Table 5. Volatile Organic Compound Detections
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Edge Analytical	TestAmerica
Vinyl chloride	E1D	1	1/29/2015	0.401	*
			4/28/2015	0.36	*
			7/10/2015	0.207	*
			10/28/2015	0.256	*
	E2S	1	1/29/2015	0.46	0.24
			4/29/2015	0.53	0.3
			7/10/2015	0.424	0.27
			10/29/2015	0.325	0.25
	E4S	1	4/28/2015	0.013	*
	N2S	1	7/8/2015	0.022	*
			10/27/2015	0.023	*
	S10S	1	1/27/2015	0.073	*
			4/28/2015	0.058	*
			7/9/2015	0.055	*
			10/27/2015	0.026	*
	E2D	2	1/29/2015	35	28
			4/29/2015	8.7 J	5.2
			7/10/2015	29.1	21
			10/29/2015	19.1	26
	E4D	2	1/29/2015	0.035	—
			4/28/2015	0.028	—
			7/9/2015	0.033	—
			10/29/2015	0.019	—
	E5D	2	1/30/2015	0.01	*
			4/29/2015	0.011	*
	E6D	2	1/30/2015	0.082	*
			4/29/2015	0.089	*
			10/30/2015	0.058	*
	E7D	2	1/30/2015	9.7	9.2
			4/29/2015	10.3 J	9.1
			10/30/2015	3.2	6.1
	E8D	2	1/30/2015	0.037	*
4/29/2015			0.03	*	
10/30/2015			0.022	*	
N2D	2	1/27/2015	0.068	*	
		4/27/2015	0.062	*	
		7/8/2015	0.075	*	
		10/27/2015	0.045	*	
N5D	2	1/28/2015	0.03	*	
		4/28/2015	0.029	*	
		7/6/2015	0.028	*	
		10/26/2015	0.023	*	

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
2015 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				
<i>Field Measurements</i>							
pH (SU)	<6.5 or >8.5	-	<6.5 or >8.5	C1S	1	10/27/2015	6.4
				N1SR	1	1/26/2015	5.66
						7/7/2015	6.37
						10/27/2015	6.25
				SE1D	1	1/26/2015	6.43
				SE1S	1	1/26/2015	6.29
				N1D	2	1/26/2015	5.97
				W1D	2	1/26/2015	5.53
				W2S	2	1/30/2015	6.19
				STP	WSW	7/10/2015	8.51
WR1	WSW	1/30/2015	6.25				
Specific Conductivity (µS/cm)	-	-	700 ^a	C1S	1	4/27/2015	964
						7/8/2015	1028
						10/27/2015	1144
				E1D	1	1/29/2015	1640
						4/28/2015	1624
						10/28/2015	1660
				E1S	1	1/29/2015	1149
						4/28/2015	1140
						7/10/2015	1119
				E2S	1	10/28/2015	1141
						1/29/2015	1356
						4/29/2015	1352
						7/10/2015	1333
				E4S	1	10/29/2015	1356
						1/29/2015	1064
						4/28/2015	1091
				N3S	1	7/8/2015	1108
						10/29/2015	1099
						1/28/2015	1128
						4/28/2015	1075
				NE1S	1	7/7/2015	1111
						10/26/2015	1056
						1/27/2015	754
				S10S	1	4/27/2015	755
						7/9/2015	734
						10/28/2015	778
						1/27/2015	1371
S11S	1	4/28/2015	1399				
		7/9/2015	1367				
		10/27/2015	1434				
		1/27/2015	890				
SE1D	1	4/28/2015	885				
		7/7/2015	908				
		10/27/2015	901				
		1/26/2015	916				
		4/28/2015	922				
		7/6/2015	938				
		10/29/2015	936				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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	SE1S	1	1/26/2015	827
						4/28/2015	827
						7/6/2015	842
						10/29/2015	834
				E2D	2	1/29/2015	1820
						1/29/2015	1820
						4/29/2015	799
				E3D	2	1/27/2015	735
						4/28/2015	737
						7/9/2015	718
						10/28/2015	752
				N1D	2	1/26/2015	1510
						4/27/2015	1490
						10/27/2015	1530
				N2D	2	1/27/2015	1165
						4/27/2015	1181
						7/8/2015	1210
						10/27/2015	1211
				N5D	2	1/28/2015	1433
						4/28/2015	1443
						7/6/2015	1467
						10/26/2015	1411
				N5S	2	1/28/2015	746
						4/28/2015	750
						7/6/2015	759
						10/26/2015	731
				S11D	2	1/27/2015	904
						4/28/2015	913
						7/7/2015	933
						10/26/2015	887
				W1D	2	1/26/2015	982
						4/28/2015	973
						7/6/2015	996
						10/26/2015	941
				W2S	2	1/30/2015	901
						4/29/2015	942
						7/8/2015	919
						10/29/2015	925
				DNR	WSW	1/30/2015	836
						4/29/2015	847
7/8/2015	858						
10/30/2015	860						
S7	WSW	7/8/2015	710				
		10/28/2015	728				
WR1	WSW	1/30/2015	832				
		4/29/2015	847				
		7/9/2015	819				
		10/29/2015	861				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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				
General Chemistry							
Sulfate (mg/L)	250	-	250	C1S	1	10/27/2015	271
Total Dissolved Solids (mg/L)	500	-	500	C1S	1	4/27/2015	633
						7/8/2015	716
						10/27/2015	806
				E1D	1	1/29/2015	1014
						4/28/2015	966
						7/10/2015	976
						10/28/2015	932
				E1S	1	1/29/2015	716
						4/28/2015	666
						7/10/2015	668
				E2S	1	10/28/2015	628
						1/29/2015	874
						4/29/2015	848
						7/10/2015	843
				E4S	1	10/29/2015	832
						1/29/2015	670
						4/28/2015	646
				N2S	1	7/8/2015	676
						10/29/2015	654
						7/8/2015	1005
				N3S	1	10/27/2015	966
						1/28/2015	704
						4/28/2015	660
				NE1S	1	7/7/2015	687
						10/26/2015	638
						7/9/2015	506
				S10S	1	1/27/2015	854
4/28/2015	846						
7/9/2015	879						
S11S	1	10/27/2015	862				
		1/27/2015	529				
		4/28/2015	524				
SE1D	1	7/7/2015	527				
		10/27/2015	506				
		1/26/2015	535				
SE1S	1	4/28/2015	522				
		7/6/2015	532				
		10/29/2015	550				
E2D	2	4/28/2015	504				
		1/29/2015	1126				
		7/10/2015	1129				
N1D	2	10/29/2015	1106				
		1/26/2015	932				
		4/27/2015	913				
N2D	2	7/7/2015	958				
		10/27/2015	900				
		1/27/2015	723				
						4/27/2015	716
						7/8/2015	726
						10/27/2015	706

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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	NA	500	N5D	2	1/28/2015	862
						4/28/2015	862
						7/6/2015	846
						10/26/2015	826
				S11D	2	1/27/2015	544
						4/28/2015	544
						7/7/2015	545
						10/26/2015	510
				W1D	2	1/26/2015	572
						4/28/2015	568
						7/6/2015	552
						10/26/2015	538
				W2S	2	1/30/2015	560
						4/29/2015	546
7/8/2015	545						
10/29/2015	552						
DNR	WSW	1/30/2015	526				
		7/8/2015	503				
WR1	WSW	1/30/2015	516				
Total Nitrate/Nitrite (mg/L)	10	10	-	E1S	1	1/29/2015	12
						4/28/2015	11.8
						7/10/2015	11.9
						10/28/2015	12.1
				S10S	1	1/27/2015	34
						4/28/2015	46.7
						7/9/2015	42.2
						10/27/2015	44.7
Metals							
Arsenic (mg/L)	0.00005	0.01	-	C1S	1	4/27/2015	0.001
						7/8/2015	0.001
				E1D	1	1/29/2015	0.004
						4/28/2015	0.004
						7/10/2015	0.004
						10/28/2015	0.004
				E1S	1	1/29/2015	0.001
						4/28/2015	0.001
						7/10/2015	0.0012
						10/28/2015	0.001
				E2S	1	1/29/2015	0.002
						4/29/2015	0.001
						7/10/2015	0.0014
						10/29/2015	0.001
				E4S	1	1/29/2015	0.001
						4/28/2015	0.003
						7/8/2015	0.0023
						10/29/2015	0.002
				N1SR	1	1/26/2015	0.002
						4/27/2015	0.002
7/7/2015	0.0017						
10/27/2015	0.002						
N2S	1	7/8/2015	0.00109				
		10/27/2015	0.001				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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	-	N3S	1	1/28/2015	0.008
						4/28/2015	0.0026
						7/7/2015	0.0023
						10/26/2015	0.002
				NE1S	1	1/27/2015	0.002
						4/27/2015	0.003
						7/9/2015	0.002
						10/28/2015	0.002
				S10S	1	1/27/2015	0.002
						4/28/2015	0.002
						7/9/2015	0.0017
						10/27/2015	0.002
				S11S	1	1/27/2015	0.006
						4/28/2015	0.006
						7/7/2015	0.005
						10/27/2015	0.005
				SE1D	1	1/26/2015	0.01
						4/28/2015	0.0106
						7/6/2015	0.0096
						10/29/2015	0.011
				SE1S	1	1/26/2015	0.005
						4/28/2015	0.005
						7/6/2015	0.005
						10/29/2015	0.005
				E2D	2	1/29/2015	0.002
						4/29/2015	0.0007
						7/10/2015	0.0016
						10/29/2015	0.002
				E3D	2	1/27/2015	0.006
						4/28/2015	0.007
						7/9/2015	0.006
						10/28/2015	0.006
				E4D	2	1/29/2015	0.003
						4/28/2015	0.014
						7/9/2015	0.014
						10/29/2015	0.014
				N1D	2	1/26/2015	0.005
						4/27/2015	0.005
						7/7/2015	0.005
						10/27/2015	0.005
N2D	2	1/27/2015	0.003				
		4/27/2015	0.003				
		7/8/2015	0.0027				
		10/27/2015	0.003				
N3D	2	1/28/2015	0.014				
		4/28/2015	0.009				
		7/7/2015	0.008				
		10/26/2015	0.008				
N5D	2	1/28/2015	0.003				
		4/28/2015	0.003				
		7/6/2015	0.003				
		10/26/2015	0.003				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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	-	N5S	2	1/28/2015	0.003		
						4/28/2015	0.003		
						7/6/2015	0.003		
						10/26/2015	0.003		
				NE1D	2	1/27/2015	0.007		
						4/27/2015	0.007		
						7/9/2015	0.0066		
				S11D	2	1/27/2015	0.003		
						4/28/2015	0.008		
						7/7/2015	0.007		
				W1D	2	10/26/2015	0.007		
						1/26/2015	0.006		
						4/28/2015	0.007		
						7/6/2015	0.007		
				W2S	2	10/26/2015	0.0072		
						1/30/2015	0.002		
						4/29/2015	0.002		
				DNR	WSW	7/8/2015	0.0016		
						10/29/2015	0.002		
						1/30/2015	0.005		
				DOT	WSW	4/29/2015	0.005		
						7/8/2015	0.005		
						10/30/2015	0.006		
				S7	WSW	1/29/2015	0.006		
						4/29/2015	0.005		
						10/30/2015	0.006		
				STP	WSW	1/29/2015	0.003		
						4/29/2015	0.003		
						7/8/2015	0.003		
				WR1	WSW	10/28/2015	0.004		
1/29/2015	0.04								
4/29/2015	0.071								
SE1D	1	7/10/2015	0.081						
		10/28/2015	0.062						
		1/30/2015	0.003						
Iron (mg/L)	0.3	-	0.3	E2D	2	4/29/2015	0.88		
						E4D	2	1/29/2015	0.74
								4/28/2015	0.7
				7/9/2015	1.36				
				N1D	2	10/29/2015	0.46		
						7/7/2015	0.34		
						10/27/2015	0.31		
				N3D	2	4/28/2015	0.47		
						S11D	2	1/27/2015	0.47
								4/28/2015	0.43
				7/7/2015	0.56				
				10/26/2015	0.54				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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) (cont.)	0.3	-	0.3	W1D	2	1/26/2015	0.34
				DNR	WSW	1/30/2015	0.33
						4/29/2015	0.41
						10/30/2015	0.5
						1/29/2015	0.45
				STP	WSW	1/29/2015	1.74
						4/29/2015	8.19
						7/10/2015	10.57
						10/28/2015	31.76
				WR1	WSW	4/29/2015	0.03 J
Manganese (mg/L)	0.05	-	0.05	E2S	1	1/29/2015	0.059
						4/29/2015	0.453
						7/10/2015	0.477
						10/29/2015	0.396
				E4S	1	1/29/2015	0.484
				S10S	1	1/27/2015	0.07
						4/28/2015	0.072
						7/9/2015	0.076
						10/27/2015	0.074
				S11S	1	1/27/2015	0.184
						4/28/2015	0.183
						7/7/2015	0.194
						10/27/2015	0.215
				SE1D	1	1/26/2015	0.179
						4/28/2015	0.183
						7/6/2015	0.204
						10/29/2015	0.215
				E2D	2	1/29/2015	0.059
						4/29/2015	0.179
						7/10/2015	0.057
						10/29/2015	0.068
				E3D	2	1/27/2015	0.234
						4/28/2015	0.259
						7/9/2015	0.241
						10/28/2015	0.253
				E4D	2	4/28/2015	0.074
						7/9/2015	0.084
						10/29/2015	0.075
				N1D	2	1/26/2015	0.178
						4/27/2015	0.177
						7/7/2015	0.253
						10/27/2015	0.224
N3D	2	1/28/2015	0.065				
		4/28/2015	0.154				
		7/7/2015	0.065				
		10/26/2015	0.057				
N5D	2	4/28/2015	0.235				
		7/6/2015	0.251				
		10/26/2015	0.265				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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	S11D	2	1/27/2015	0.219
						4/28/2015	0.155
						7/7/2015	0.166
						10/26/2015	0.155
				W1D	2	4/28/2015	0.142
						7/6/2015	0.141
						10/26/2015	0.158
				DNR	WSW	1/30/2015	0.099
						4/29/2015	0.104
						7/8/2015	0.102
						10/30/2015	0.115
				DOT	WSW	1/29/2015	0.126
						4/29/2015	0.128
						7/6/2015	0.141
						10/30/2015	0.146
				STP	WSW	1/29/2015	0.1
4/29/2015	0.124						
7/10/2015	0.128						
10/28/2015	0.339						
Volatile Organic Compounds							
trans-1,3-Dichloropropene (µg/L)	0.2	-	-	N5S	2	1/28/2015	0.4
Vinyl chloride (µg/L)	0.02	2	-	E1D	1	1/29/2015	0.401
						4/28/2015	0.36
						7/10/2015	0.207
						10/28/2015	0.256
				E2S	1	1/29/2015	0.46
						4/29/2015	0.53
						7/10/2015	0.5
						10/29/2015	0.325
				N2S	1	7/8/2015	0.022
						10/27/2015	0.023
				S10S	1	1/27/2015	0.073
						4/28/2015	0.058
						7/9/2015	0.055
						10/27/2015	0.026
				E2D	2	1/29/2015	24.7
						4/29/2015	8.7 J
7/10/2015	33.5						
10/29/2015	19.1						
E4D	2	1/29/2015	0.035				
		4/28/2015	0.028				
		7/9/2015	0.033				

**Table 6. WAC 173-200 and Federal MCL Exceedences
2015 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				
Vinyl chloride (µg/L) (cont.)	0.02	2	-	N2D	2	1/27/2015	0.068
						4/27/2015	0.062
						7/8/2015	0.075
						10/27/2015	0.045
				N5D	2	1/28/2015	0.03
						4/28/2015	0.029
						7/6/2015	0.028
						10/26/2015	0.023

Notes:

° = WAC 246-290-310 standard

mg/L = milligrams per liter

µg/L = micrograms per liter

MCL = Federal Maximum Contaminant Level

WSW = Water Supply Well

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)									Long Term Statistics (1985-2015)									
			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	4	4	964	1144	1031.8	-3	-0.722	23.51	no trend	39	39	1.083	1826	1195.8	-50	-0.593	27.67	no trend	
	1	E1D	8	8	13.58	1660	1227.3	3	0.253	40	no trend	115	115	1.97	2490	1209.5	2081	5.028	0	increasing	
	1	E1S	8	8	958	1170	1102.3	3	0.251	40.08	no trend	115	115	1.353	2080	1194	1395	3.37	0.04	increasing	
	1	E2S	11	11	1180	1400	1330.4	7	0.754	22.55	no trend	113	113	1.404	1630	1077	3212	7.968	0	increasing	
	1	E4S	8	8	790	1108	1005	-2	-0.124	45.08	no trend	30	30	1.09	1238	955.6	-37	-0.642	26.04	no trend	
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	8	860	1249	1141.6	N/A	N/A	N/A	N/A	N/A
	1	N1SR	8	8	409	446	423.1	-5	-0.507	30.62	no trend	40	40	0.442	608	482.6	-362	-4.206	0	decreasing	
	1	N2S	2	2	159	160	159.5	N/A	N/A	N/A	N/A	44	44	1.68	1900	1347.3	N/A	N/A	N/A	N/A	N/A
	1	N3S	8	8	917	1194	1069.5	0	0	50	no trend	113	113	0.974	1365	795	3780	9.377	0	increasing	
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	758	893	796.4	-1	0	50	no trend	
	1	NE1S	8	8	671	810	745.3	-13	-1.508	6.58	no trend	53	53	0.73	1004	788.8	-176	-1.342	8.97	no trend	
	1	S10S	8	8	1079	1434	1298.8	-3	-0.251	40.08	no trend	54	54	1.206	2400	1511.8	-808	-6.021	0	decreasing	
	1	S11S	7	7	738	908	850.9	2	0.156	43.82	no trend	49	49	0.739	1033	844.5	-51	-0.431	33.33	no trend	
	1	SE1D	8	8	762	940	888.8	7	0.742	22.9	no trend	50	50	0.925	1054	854.9	203	1.69	4.55	no trend	
	1	SE1S	8	8	685	842	797.1	0	0	50	no trend	50	50	0.859	966	782.3	-389	-3.246	0.06	decreasing	
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	662	694	678	N/A	N/A	N/A	N/A	N/A
	2	E2D	11	11	180	1850	1088.4	-7	-0.754	22.55	no trend	114	114	1.64	2280	1032.9	2383	5.833	0	increasing	
	2	E3D	8	8	610	752	708	5	0.507	30.62	no trend	59	59	0.603	846	689.9	534	3.486	0.02	increasing	
	2	E4D	11	11	471	567	530.4	5	0.503	30.76	no trend	32	32	0.629	933	546.3	-204	-3.293	0.05	decreasing	
	2	N1D	8	8	155	1550	1287.9	15	1.759	3.93	no trend	114	114	1.292	1850	1180.7	3305	8.091	0	increasing	
	2	N2D	8	8	122	1211	1009.8	-2	-0.126	45	no trend	119	119	1.205	1516	858.2	4325	9.931	0	increasing	
	2	N3D	8	8	6.17	645	526.8	11	1.267	10.27	no trend	113	113	0.444	720	515.7	2819	6.992	0	increasing	
	2	N5D	8	8	1191	1470	1386	-7	-0.76	22.37	no trend	53	53	1.415	1471	1277	461	3.529	0.02	increasing	
	2	N5S	8	8	612	760	716.5	0	0	50	no trend	53	53	0.792	917	681.4	-210	-1.603	5.45	no trend	
	2	NE1D	8	8	556	680	635.1	-6	-0.628	26.49	no trend	53	53	0.542	763	591.4	67	0.506	30.64	no trend	
	2	S11D	8	8	752	933	874.4	1	0	50	no trend	51	51	0.761	1065	868.4	-149	-1.202	11.47	no trend	
	2	W1D	8	8	820	1010	944.4	11	1.257	10.45	no trend	111	111	0.804	1159	890.2	1540	3.922	0	increasing	
	2	W2S	7	7	778	942	897.3	6	0.768	22.11	no trend	52	52	0.861	1018	833.5	333	2.62	0.44	increasing	
	WSW	DNR	8	8	718	870	820.6	14	1.634	5.12	no trend	60	60	0.703	969	770.1	441	2.806	0.25	increasing	
	WSW	DOT	8	8	526	668	622.8	-2	-0.125	45.04	no trend	98	98	0.51	712	562.7	2072	6.357	0	increasing	
WSW	S7	8	8	578	728	673.4	7	0.76	22.37	no trend	119	119	0.55	1920	597	3076	7.063	0	increasing		
WSW	STP	8	8	482	602	543.8	20	2.351	0.94	increasing	78	76	0	772	545.7	-102	-0.436	33.15	no trend		
WSW	WR1	8	8	692	861	805.4	9	1.005	15.74	no trend	57	57	7.65	865	755.2	508	3.49	0.02	increasing		

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)									Long Term Statistics (1985-2015)									
			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	4	4	5.43	6.6	6.2	2	0.34	36.71	no trend	40	40	1.6	13.2	6.22	385	4.474	0	increasing	
	1	E1D	8	8	0.16	1.63	0.725	-28	-3.34	0.04	decreasing	115	76	<0.000030	3.19	0.746	-1592	-3.846	0.01	decreasing	
	1	E1S	8	8	11.8	13	12.37	-17	-1.995	2.3	no trend	115	102	<0.000030	13	3.416	2207	5.333	0	increasing	
	1	E2S	8	8	5.72	8.32	6.63	26	3.093	0.1	increasing	112	67	<0.000030	8.32	0.955	-1875	-4.713	0	decreasing	
	1	E4S	8	8	0.38	0.6	0.485	13	1.496	6.73	no trend	30	30	0.11	3.85	0.408	158	2.803	0.25	increasing	
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	8	0.2	8.7	4.33	N/A	N/A	N/A	N/A
	1	N1SR	8	8	2.27	6.87	3.92	-4	-0.371	35.53	no trend	40	40	2.27	11.5	6.86	-308	-3.577	0.02	decreasing	
	1	N2S	2	2	5.64	6.11	5.88	N/A	N/A	N/A	N/A	N/A	45	28	<0.000030	6.11	0.883	N/A	N/A	N/A	N/A
	1	N3S	8	8	5.14	6.49	5.87	-2	-0.124	45.08	no trend	113	108	<0.2	6.49	2.18	4609	11.434	0	increasing	
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	<0.000030	<0.2	0.0205	0	0	50	no trend
	1	NE1S	8	8	5.19	8.36	6.71	-26	-3.093	0.1	decreasing	53	53	0.03	8.39	5.1	917	7.026	0	increasing	
	1	S10S	8	8	27	86	42.45	14	1.608	5.39	no trend	54	54	0.02	86	33.8	37	0.269	39.41	no trend	
	1	S11S	7	1	<0.008	0.14	0.0336	N/A	N/A	N/A	N/A	N/A	49	2	<0.00070	0.19	0.01458	N/A	N/A	N/A	N/A
	1	SE1D	8	1	<0.008	0.39	0.0669	N/A	N/A	N/A	N/A	N/A	50	7	<0.00070	0.95	0.042	-133	-1.105	13.47	no trend
	1	SE1S	8	8	1.09	1.32	1.174	7	0.742	22.9	no trend	50	49	<0.012	1.32	0.604	971	8.115	0	increasing	
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	0.8	1.1	0.967	N/A	N/A	N/A	N/A
	2	E2D	8	7	<0.0206	3.28	2.395	6	0.619	26.81	no trend	110	96	<0.00070	3.28	0.588	-486	-1.253	10.51	no trend	
	2	E3D	8	1	<0.008	0.14	0.0307	N/A	N/A	N/A	N/A	N/A	59	3	<0.000030	0.18	0.01552	-740	-4.835	0	decreasing
	2	E4D	8	0	<0.008	<0.10	0.01944	N/A	N/A	N/A	N/A	N/A	30	0	<0.0028	<0.10	0.01198	N/A	N/A	N/A	N/A
	2	N1D	8	3	<0.00110	0.51	0.1202	-3	-0.249	40.16	no trend	115	42	<0.000030	0.6	0.1064	-3608	-8.72	0	decreasing	
	2	N2D	8	8	2.02	2.69	2.294	6	0.619	26.81	no trend	120	86	<0.000030	2.69	0.531	-1119	-2.536	0.56	decreasing	
	2	N3D	8	2	<0.0206	0.13	0.0427	-6	-0.628	26.49	no trend	112	21	<0.000030	0.7	0.0753	-2863	-7.198	0	decreasing	
	2	N5D	8	0	<0.008	<0.10	0.01944	N/A	N/A	N/A	N/A	N/A	53	3	<0.00070	0.18	0.01215	N/A	N/A	N/A	N/A
	2	N5S	8	0	<0.008	<0.10	0.01944	N/A	N/A	N/A	N/A	N/A	53	18	<0.00190	0.21	0.01832	-45	-0.338	36.78	no trend
	2	NE1D	8	3	<0.0206	0.11	0.0414	-5	-0.503	30.76	no trend	53	27	<0.00250	3.86	0.0956	-7	-0.046	48.16	no trend	
	2	S11D	8	1	<0.008	0.11	0.02694	N/A	N/A	N/A	N/A	N/A	50	3	<0.00070	0.16	0.01407	N/A	N/A	N/A	N/A
	2	W1D	8	3	<0.008	0.28	0.0931	1	0	50	no trend	111	37	<0.000030	0.4	0.0888	-3297	-8.401	0	decreasing	
	2	W2S	7	7	3.45	4.4	3.884	-11	-1.502	6.66	no trend	52	52	0.18	4.4	3.09	780	6.147	0	increasing	
	WSW	DNR	8	3	<0.0206	0.56	0.119	-14	-1.634	5.12	no trend	60	34	<0.000030	0.56	0.0607	-759	-4.836	0	decreasing	
	WSW	DOT	8	0	<0.008	<0.10	0.01944	N/A	N/A	N/A	N/A	N/A	99	4	<0.000030	0.3	0.0528	-1865	-5.636	0	decreasing
WSW	S7	8	4	<0.0206	0.46	0.1189	-2	-0.125	45.04	no trend	120	26	<0.000030	1.76	0.0945	-3168	-7.184	0	decreasing		
WSW	STP	8	2	<0.008	0.24	0.0656	2	0.125	45.04	no trend	78	5	<0.000030	0.24	0.0431	-1293	-5.576	0	decreasing		
WSW	WR1	8	8	1.21	1.63	1.4	4	0.371	35.53	no trend	57	54	<0.012	1.63	0.897	673	4.626	0	increasing		

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)									Long Term Statistics (1985-2015)									
			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	4	4	148	271	220.3	215	0.34	36.71	no trend	40	40	32	434	230.6	199	2.307	1.05	no trend	
	1	E1D	8	8	47	52	49.2	49	-1.247	10.63	no trend	115	115	22	109	57.2	2096	5.064	0	increasing	
	1	E1S	8	8	40.7	44	42	42	-1.621	5.25	no trend	115	115	17	59	32.7	4044	9.773	0	increasing	
	1	E2S	8	8	58	65	61.8	62	1.485	6.88	no trend	112	112	8	76	27.6	2013	5.059	0	increasing	
	1	E4S	8	8	37	41	39.2	39	-1.237	10.8	no trend	30	30	24	63	33.9	304	5.409	0	increasing	
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	8	26	102	75.1	N/A	N/A	N/A	N/A	N/A
	1	N1SR	8	8	10	19	13.23	13	-0.866	19.33	no trend	40	40	10	37	23.37	-512	-5.956	0	decreasing	
	1	N2S	2	2	110	110	110	110	N/A	N/A	N/A	45	45	3	110	48	N/A	N/A	N/A	N/A	N/A
	1	N3S	8	8	41	45	43.7	44	0.125	45.04	no trend	113	113	15	56	41.1	1748	4.335	0	increasing	
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	70	91	80.3	-22	-1.878	3.02	no trend	
	1	NE1S	8	8	55	60.4	58.1	58	0.499	30.9	no trend	53	53	34	97	69.9	-126	-0.959	16.88	no trend	
	1	S10S	8	8	33	103	84	80	2.103	1.77	no trend	54	54	33	131	97.1	-349	-2.596	0.47	decreasing	
	1	S11S	7	7	29	31	29.7	30	0	50	no trend	49	49	25	32	28	645	5.554	0	increasing	
	1	SE1D	8	8	26	28	26.8	27	-0.742	22.9	no trend	50	50	21	37	25.13	723	6.042	0	increasing	
	1	SE1S	8	8	37	39	38.1	38	-0.374	35.42	no trend	50	50	26	61	38.3	-111	-0.92	17.87	no trend	
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	43	49	45.7	N/A	N/A	N/A	N/A	N/A
		2	E2D	8	8	17.7	57.5	44.6	43	1.745	4.05	no trend	110	110	0.8	57.5	25.1	645	1.664	4.81	no trend
		2	E3D	8	8	15.7	19	16.3	16	-2.136	1.63	no trend	59	59	13	28	15.56	620	4.049	0	increasing
		2	E4D	8	8	10	12.7	11.44	11	1.608	5.39	no trend	30	30	10	161	25.7	-353	-6.282	0	decreasing
		2	N1D	8	8	130	139	134.3	134	1.113	13.28	no trend	115	114	<0.04	139	76.6	5426	13.113	0	increasing
		2	N2D	8	8	58	64.7	61.1	61	2.244	1.24	no trend	120	120	2	64.7	32.3	4779	10.838	0	increasing
		2	N3D	8	8	22	24	23.46	23	0	50	no trend	112	112	0.6	51	19.07	3526	8.864	0	increasing
		2	N5D	8	8	50	55.9	53	53	2.474	0.67	increasing	53	53	30	55.9	41	1187	9.099	0	increasing
		2	N5S	8	8	34	39	36	36	-2.136	1.63	no trend	53	53	31	39	35.2	558	4.274	0	increasing
		2	NE1D	8	8	35	37	36.1	36	-0.249	40.16	no trend	53	53	29	81	36.5	626	4.795	0	increasing
		2	S11D	8	8	29.9	32	30.64	31	-1.113	13.28	no trend	50	50	27	33	30.1	99	0.82	20.61	no trend
		2	W1D	8	8	32	34	32.9	33	0	50	no trend	111	111	11	46	28.14	324	0.823	20.52	no trend
		2	W2S	7	7	41	55	51.6	51	0.3	38.2	no trend	52	52	32	140	59.1	-735	-5.793	0	decreasing
		WSW	DNR	8	8	38	41.3	40.1	40	0.374	35.42	no trend	60	60	16	41.3	34.54	1322	8.427	0	increasing
		WSW	DOT	8	8	19	22	20.6	21	0.499	30.9	no trend	99	99	10.1	32	16.5	2457	7.425	0	increasing
	WSW	S7	8	8	12	17	13.9	14	-0.873	19.14	no trend	120	118	<1.0	56	11.48	4826	10.945	0	increasing	
	WSW	STP	8	8	5.8	14	11	11	-1.371	8.51	no trend	78	78	5.8	44.7	12.32	460	1.981	2.38	no trend	
	WSW	WR1	8	8	40	46	41.9	42	-0.374	35.42	no trend	57	57	36	53.4	43.8	-721	-4.957	0	decreasing	

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)										Long Term Statistics (1985-2015)								
			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	4	4	572	806	681.8	6	1.698	4.47	no trend	40	40	572	1201	877.8	-59	-0.676	24.96	no trend	
	1	E1D	8	8	932	1056	996.5	-14	-1.608	5.39	no trend	53	53	932	1600	1173.2	-1106	-8.476	0	decreasing	
	1	E1S	8	8	628	739	693.6	-13	-1.485	6.88	no trend	53	53	628	1200	839.2	-1097	-8.407	0	decreasing	
	1	E2S	8	8	832	874	856.6	-19	-2.244	1.24	no trend	53	53	551	890	798.7	556	4.258	0	increasing	
	1	E4S	8	8	586	676	637	20	2.351	0.94	increasing	30	30	540	711	639.6	4	0.054	47.87	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	N/A
	1	N1SR	8	8	254	307	273.8	-14	-1.608	5.39	no trend	40	40	254	416	333.7	-467	-5.429	0	decreasing	
	1	N2S	2	2	966	1005	985.5	N/A	N/A	N/A	N/A	23	23	926	1136	1024.7	N/A	N/A	N/A	N/A	N/A
	1	N3S	8	8	638	704	673.3	0	0	50	no trend	51	51	602	724	672.5	539	4.37	0	increasing	
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	4	479	545	501.8	-2	-0.34	36.71	no trend	
	1	NE1S	8	8	466	537	504.5	-13	-1.496	6.73	no trend	53	53	380	620	524.5	214	1.634	5.11	no trend	
	1	S10S	8	8	824	879	854.3	14	1.608	5.39	no trend	54	54	785	1410	1022.5	-959	-7.147	0	decreasing	
	1	S11S	7	7	506	538	527.1	-14	-1.952	2.54	no trend	49	49	479	551	520.7	130	1.112	13.31	no trend	
	1	SE1D	8	8	522	556	542.5	-7	-0.742	22.9	no trend	50	50	351	559	513.6	509	4.249	0	increasing	
	1	SE1S	8	8	481	509	495.5	3	0.247	40.23	no trend	50	50	452	548	491.8	-65	-0.535	29.62	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	N/A
	2	E2D	8	8	452	1161	1052.4	-18	-2.103	1.77	no trend	53	53	452	1277	1133.5	102	0.775	21.93	no trend	
	2	E3D	8	8	428	446	435.5	-5	-0.495	31.04	no trend	53	53	338	447	417.5	685	5.247	0	increasing	
	2	E4D	8	8	328	354	338.8	-14	-1.608	5.39	no trend	30	30	328	556	360.2	-271	-4.818	0	decreasing	
	2	N1D	8	8	900	964	935.8	-10	-1.113	13.28	no trend	52	52	860	1079	946.9	55	0.426	33.5	no trend	
	2	N2D	8	8	706	752	724	-2	-0.124	45.08	no trend	53	53	403	767	684.3	754	5.776	0	increasing	
	2	N3D	8	8	364	396	382.3	2	0.126	45	no trend	52	52	298	396	360.5	602	4.743	0	increasing	
	2	N5D	8	8	826	870	852.6	-3	-0.249	40.16	no trend	53	53	657	891	801.7	854	6.543	0	increasing	
	2	N5S	8	8	265	455	415.1	-1	0	50	no trend	53	53	265	461	429.6	50	0.376	35.35	no trend	
	2	NE1D	8	8	382	407	399.3	-8	-0.866	19.33	no trend	53	53	258	549	380.6	614	4.702	0	increasing	
	2	S11D	8	8	510	560	542.3	-5	-0.499	30.9	no trend	50	50	496	571	535.9	92	0.761	22.33	no trend	
	2	W1D	8	8	538	839	600.9	-26	-3.093	0.1	decreasing	53	53	336	839	557.2	282	2.156	1.56	no trend	
2	W2S	7	7	544	568	553.9	-3	-0.3	38.2	no trend	52	52	327	721	516.5	629	4.956	0	increasing		
WSW	DNR	8	8	430	526	497	-5	-0.495	31.04	no trend	53	53	430	526	482.6	663	5.078	0	increasing		
WSW	DOT	8	8	382	398	391.1	15	1.745	4.05	no trend	53	53	305	398	369.9	600	4.595	0	increasing		
WSW	S7	8	8	386	424	408.5	-6	-0.619	26.81	no trend	53	53	361	717	403.3	487	3.728	0.01	increasing		
WSW	STP	8	8	288	356	324.1	-19	-2.244	1.24	no trend	52	52	288	381	349.6	-74	-0.576	28.23	no trend		
WSW	WR1	8	8	474	520	499.8	-4	-0.371	35.53	no trend	42	42	378	633	474.9	216	2.33	0.99	increasing		

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)										Long Term Statistics (1985-2015)								
			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	4	3	<0.50	1	0.813	-3	-0.722	23.51	no trend	40	33	<0.024	2	0.859	0	0	50	no trend	
	1	E1D	8	8	3.9	4	3.99	3	0.253	40	no trend	100	67	<0.110	<200	10.43	-2503	-7.452	0	decreasing	
	1	E1S	8	8	1	1.4	1.075	3	0.251	40.08	no trend	100	49	<0.024	<200	8.2	-1689	-5.028	0	decreasing	
	1	E2S	8	7	<0.024	2	1.177	7	0.754	22.55	no trend	101	64	<0.024	<200	11.8	-3317	-9.731	0	decreasing	
	1	E4S	8	8	1	3	2.213	-2	-0.124	45.08	no trend	30	30	1	3	2.49	-64	-1.126	13.02	no trend	
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	2	<0.110	144	25.37	N/A	N/A	N/A	N/A
	1	N1SR	8	8	1.7	2	1.963	-5	-0.507	30.62	no trend	40	40	1.5	3	1.998	-147	-1.703	4.43	no trend	
	1	N2S	2	2	1	1.09	1.045	N/A	N/A	N/A	N/A	N/A	38	11	<0.030	<20	0.92	N/A	N/A	N/A	N/A
	1	N3S	8	8	2	8	3.11	0	0	50	no trend	98	55	<0.030	<200	9.77	-1949	-5.98	0	decreasing	
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	4	<0.10	4	1.53	14	1.177	11.96	no trend
	1	NE1S	8	8	2	3	2.363	-13	-1.508	6.58	no trend	53	53	2	6	2.885	-409	-3.131	0.09	decreasing	
	1	S10S	8	8	1.7	2	1.938	-3	-0.251	40.08	no trend	54	49	<0.030	3	1.79	82	0.605	27.27	no trend	
	1	S11S	7	7	5	6	5.29	2	0.156	43.82	no trend	49	49	3	7	5.76	-351	-3.019	0.13	decreasing	
	1	SE1D	8	8	9.6	11	10.25	7	0.742	22.9	no trend	50	50	4	18	11.38	-670	-5.598	0	decreasing	
	1	SE1S	8	8	5	5	5	0	0	50	no trend	50	50	3	12	5.41	-209	-1.741	4.09	no trend	
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	<20	<20	<20	N/A	N/A	N/A	N/A
	2	E2D	8	8	0.7	2	1.788	-7	-0.754	22.55	no trend	100	56	<0.030	<200	8.33	-2050	-6.103	0	decreasing	
	2	E3D	8	8	5.7	7	6.09	5	0.507	30.62	no trend	59	59	2	10	6.61	-686	-4.481	0	decreasing	
	2	E4D	8	8	3	14	12.5	5	0.503	30.76	no trend	30	30	3	26	18.03	-263	-4.678	0	decreasing	
	2	N1D	8	8	3	5	4.5	15	1.759	3.93	no trend	100	66	<0.10	<200	10.39	-2494	-7.425	0	decreasing	
	2	N2D	8	8	2.7	3	2.925	-2	-0.126	45	no trend	100	56	<0.10	<200	8.7	-2066	-6.151	0	decreasing	
	2	N3D	8	8	7	14	8.63	11	1.267	10.27	no trend	97	68	<0.10	<200	13.1	-1397	-4.352	0	decreasing	
	2	N5D	8	8	3	4	3.125	-7	-0.76	22.37	no trend	53	53	3	9	4.245	-711	-5.448	0	decreasing	
	2	N5S	8	8	3	3	3	0	0	50	no trend	53	53	2	4	3.066	-121	-0.921	17.85	no trend	
	2	NE1D	8	7	<0.50	7	5.98	-6	-0.628	26.49	no trend	53	52	<0.50	8	6.59	5	0.031	48.78	no trend	
	2	S11D	8	8	3	8	6.8	1	0	50	no trend	50	50	3	9.6	7.73	-451	-3.766	0.01	decreasing	
	2	W1D	8	8	5	7.2	6.53	11	1.257	10.45	no trend	100	70	<0.110	<200	11.02	-1405	-4.182	0	decreasing	
	2	W2S	7	7	1.6	2	1.83	6	0.768	22.11	no trend	52	51	<0.030	14	2.58	-345	-2.716	0.33	decreasing	
	WSW	DNR	8	8	4	6	5	14	1.634	5.12	no trend	60	60	4	12	5.88	-606	-3.86	0.01	decreasing	
	WSW	DOT	8	7	<0.024	8	5	-2	-0.125	45.04	no trend	99	67	<0.024	<200	11.44	-2585	-7.813	0	decreasing	
WSW	S7	8	8	3	4	3.125	7	0.76	22.37	no trend	100	56	<0.024	<200	9.66	-1935	-5.761	0	decreasing		
WSW	STP	8	8	9	81	43.25	20	2.351	0.94	increasing	101	67	<1.0	<200	14.94	-1225	-3.592	0.02	decreasing		
WSW	WR1	8	8	0.7	3	2.59	9	1.005	15.74	no trend	57	42	<0.030	5	2.337	96	0.654	25.65	no trend		

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)									Long Term Statistics (1985-2015)								
			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	4	3	<0.050	0.13	0.0638	-3	-0.679	24.85	no trend	40	15	<0.00130	0.35	0.04835	187	2.168	1.51	no trend
	1	E1D	8	3	<0.0012	0.05	0.01132	7	0.748	22.72	no trend	97	34	<0.0010	3.89	0.095	-1444	-4.498	0	decreasing
	1	E1S	8	2	<0.0012	0.05	0.01027	0	0	50	no trend	97	47	<0.0010	19	0.497	-2532	-7.889	0	decreasing
	1	E2S	8	6	<0.00130	0.29	0.107	-1	0	50	no trend	98	94	<0.00130	23	3.095	-2240	-6.872	0	decreasing
	1	E4S	8	3	<0.0012	0.12	0.02594	0	0	50	no trend	29	5	<0.0010	0.12	0.01476	N/A	N/A	N/A	N/A
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	5	0.2	132	27.47	N/A	N/A	N/A	N/A
	1	N1SR	8	2	<0.0012	0.05	0.01064	0	0	50	no trend	40	4	<0.0010	0.053	0.00673	N/A	N/A	N/A	N/A
	1	N2S	2	1	0.01	<0.050	0.0175	N/A	N/A	N/A	N/A	36	5	<0.002	3.6	0.119	N/A	N/A	N/A	N/A
	1	N3S	8	6	<0.00130	0.24	0.0826	-3	-0.249	40.16	no trend	95	58	<0.0010	16	1.337	-1605	-5.157	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	4	<0.0012	0.09	0.03336	4	0.371	35.53	no trend	53	16	<0.0010	0.22	0.0331	-207	-1.581	5.7	no trend
	1	S10S	8	4	<0.0012	0.09	0.0271	1	0	50	no trend	54	23	<0.0010	2.05	0.1542	-504	-3.754	0.01	decreasing
	1	S11S	7	7	0.12	0.25	0.1514	-1	0	50	no trend	49	48	<0.002	0.25	0.126	297	2.552	0.54	increasing
	1	SE1D	8	8	0.23	2.26	0.97	-8	-0.866	19.33	no trend	50	50	0.08	23.6	5.71	-808	-6.75	0	decreasing
	1	SE1S	8	4	<0.0012	0.08	0.0281	5	0.495	31.04	no trend	50	26	<0.0010	1.63	0.1138	-482	-4.024	0	decreasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	11	21	17.33	N/A	N/A	N/A	N/A
	2	E2D	8	3	<0.0012	0.88	0.1234	3	0.249	40.16	no trend	94	37	<0.0010	23	0.343	-1813	-5.919	0	decreasing
	2	E3D	8	3	<0.0012	0.05	0.01594	3	0.249	40.16	no trend	58	25	<0.0010	0.3	0.03895	-625	-4.187	0	decreasing
	2	E4D	8	8	0.46	3.41	1.28	-14	-1.608	5.39	no trend	30	30	0.15	3.41	1.01	-52	-0.91	18.15	no trend
	2	N1D	8	8	0.15	0.41	0.31	-5	-0.495	31.04	no trend	97	96	<0.0012	2.77	0.504	122	0.377	35.31	no trend
	2	N2D	8	3	<0.0012	0.05	0.0117	5	0.499	30.9	no trend	96	36	<0.0012	1.85	0.0573	-1510	-4.777	0	decreasing
	2	N3D	8	8	0.15	0.47	0.259	-6	-0.619	26.81	no trend	94	93	<0.0012	2.04	0.377	-1103	-3.599	0.02	decreasing
	2	N5D	8	3	<0.0012	0.05	0.0172	2	0.126	45	no trend	53	9	<0.0010	0.08	0.01124	N/A	N/A	N/A	N/A
	2	N5S	8	4	<0.0012	0.07	0.02424	1	0	50	no trend	53	7	<0.0010	0.09	0.01034	N/A	N/A	N/A	N/A
	2	NE1D	8	8	0.04	0.43	0.1725	-10	-1.113	13.28	no trend	53	37	<0.0010	3.92	0.1997	-397	-3.038	0.12	decreasing
	2	S11D	8	8	0.38	1.14	0.653	-8	-0.866	19.33	no trend	50	50	0.15	2.27	0.509	127	1.054	14.59	no trend
	2	W1D	8	8	0.05	0.34	0.1588	2	0.124	45.08	no trend	97	97	0.037	0.8	0.2543	-2150	-6.698	0	decreasing
	2	W2S	7	6	0.009	0.13	0.0534	-15	-2.103	1.78	no trend	52	22	<0.0010	1.92	0.1224	-363	-2.857	0.21	decreasing
	WSW	DNR	8	8	0.25	0.5	0.364	5	0.495	31.04	no trend	60	60	0.1	15.1	0.629	199	1.263	10.33	no trend
	WSW	DOT	8	8	0.08	0.45	0.25	-8	-0.88	18.96	no trend	96	95	<0.010	0.854	0.2535	192	0.605	27.28	no trend
WSW	S7	8	8	0.07	0.19	0.1288	-1	0	50	no trend	97	85	<0.0010	14.7	0.3086	376	1.169	12.13	no trend	
WSW	STP	8	8	0.16	31.76	7.93	22	2.598	0.47	increasing	96	78	<0.002	86	1.666	1937	6.128	0	increasing	
WSW	WR1	8	5	<0.0012	0.2	0.047	-9	-0.997	15.93	no trend	57	35	<0.0012	2.13	0.1308	-67	-0.454	32.48	no trend	

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)										Long Term Statistics (1985-2015)								
			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	4	3	<0.0010	0.012	0.004625	2	0.34	36.71	no trend	40	38	<0.0000282	0.459	0.249	-356	-4.136	0	decreasing	
	1	E1D	8	8	0.035	0.049	0.04	1	0	50	no trend	97	94	<0.0010	0.394	0.0465	1270	3.955	0	increasing	
	1	E1S	8	6	<0	0.026	0.00515	-11	-1.237	10.8	no trend	97	95	<0	0.97	0.1643	-2494	-7.77	0	decreasing	
	1	E2S	8	8	0.059	0.631	0.455	-10	-1.113	13.28	no trend	98	97	<0.0000282	2.8	1.03	-238	-0.727	23.35	no trend	
	1	E4S	8	6	<0	0.484	0.0638	-8	-0.88	18.96	no trend	30	26	<0	0.484	0.0323	-201	-3.57	0.02	decreasing	
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	5	0.241	1.33	0.511	N/A	N/A	N/A	N/A	N/A
	1	N1SR	8	8	0.001	0.006	0.002313	-8	-0.873	19.14	no trend	40	40	0.001	0.014	0.00556	-480	-5.582	0	decreasing	
	1	N2S	2	2	0.005	0.006	0.0055	N/A	N/A	N/A	N/A	36	36	0.005	0.283	0.0765	N/A	N/A	N/A	N/A	N/A
	1	N3S	8	7	<0.0010	0.083	0.0177	0	0	50	no trend	95	81	<0.0000282	0.34	0.02816	-1372	-4.408	0	decreasing	
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	0.136	0.194	0.1652	-27	-2.335	0.98	decreasing	
	1	NE1S	8	6	<0.00010	0.019	0.00644	15	1.732	4.16	no trend	53	35	<0	0.329	0.0145	-515	-3.944	0	decreasing	
	1	S10S	8	8	0.064	0.094	0.0758	-4	-0.371	35.53	no trend	54	54	0.064	0.365	0.1322	-1138	-8.483	0	decreasing	
	1	S11S	7	7	0.183	0.215	0.1964	-1	0	50	no trend	49	49	0.01	0.271	0.1823	372	3.198	0.07	increasing	
	1	SE1D	8	8	0.179	0.235	0.205	-2	-0.124	45.08	no trend	50	49	<0.0000282	0.778	0.2666	-529	-4.417	0	decreasing	
	1	SE1S	8	2	<0	0.002	0.000633	-13	-1.508	6.58	no trend	50	29	<0	0.241	0.01277	-527	-4.402	0	decreasing	
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	0.13	0.22	0.1867	N/A	N/A	N/A	N/A	N/A
	2	E2D	8	8	0.052	0.179	0.0869	4	0.371	35.53	no trend	95	68	<0.000090	2	0.0538	1770	5.688	0	increasing	
	2	E3D	8	8	0.115	0.28	0.2386	-4	-0.371	35.53	no trend	58	58	0.07	0.344	0.238	583	3.904	0	increasing	
	2	E4D	8	8	0.002	0.13	0.0755	-4	-0.371	35.53	no trend	30	30	0.002	0.393	0.1153	-248	-4.407	0	decreasing	
	2	N1D	8	8	0.096	0.253	0.2024	2	0.124	45.08	no trend	97	97	0.002	0.96	0.178	2311	7.2	0	increasing	
	2	N2D	8	8	0.016	0.021	0.01788	-1	0	50	no trend	96	57	<0.000030	0.041	0.00771	2400	7.594	0	increasing	
	2	N3D	8	8	0.017	0.154	0.0771	-1	0	50	no trend	94	94	0.009	0.25	0.0545	-468	-1.525	6.36	no trend	
	2	N5D	8	8	0.001	0.265	0.2143	14	1.608	5.39	no trend	53	52	<0.0000282	0.265	0.1726	767	5.876	0	increasing	
	2	N5S	8	7	<0	0.021	0.004376	-4	-0.374	35.42	no trend	53	36	<0	0.294	0.01013	-216	-1.65	4.95	no trend	
	2	NE1D	8	8	0.013	0.03	0.01888	-2	-0.124	45.08	no trend	53	53	0.001	0.378	0.03855	-811	-6.214	0	decreasing	
	2	S11D	8	8	0.14	0.219	0.1715	-2	-0.124	45.08	no trend	50	50	0.078	0.22	0.165	-87	-0.719	23.6	no trend	
	2	W1D	8	7	<0.0010	0.163	0.1068	2	0.124	45.08	no trend	97	96	<0.0010	0.23	0.163	-1930	-6.012	0	decreasing	
	2	W2S	7	6	<0.0010	0.008	0.00286	-7	-0.911	18.1	no trend	52	46	<0	2.42	0.197	-711	-5.603	0	decreasing	
	WSW	DNR	8	8	0.099	0.121	0.1089	-1	0	50	no trend	60	60	0.075	0.147	0.0934	67	0.421	33.69	no trend	
	WSW	DOT	8	8	0.126	0.146	0.1354	6	0.619	26.81	no trend	96	96	0.062	0.159	0.1282	-50	-0.155	43.84	no trend	
WSW	S7	8	8	0.006	0.057	0.03275	-3	-0.249	40.16	no trend	97	97	0.006	0.197	0.03325	355	1.103	13.5	no trend		
WSW	STP	8	8	0.057	0.339	0.1415	16	1.856	3.17	no trend	96	84	<0.0010	0.339	0.0729	2678	8.474	0	increasing		
WSW	WR1	8	6	<0	0.003	0.001289	-3	-0.247	40.23	no trend	57	32	<0	0.09	0.00498	-273	-1.873	3.05	no trend		

**Table 7. Short and Long Term Statistics for Select Parameters
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Parameter	Aquifer	Station	Short Term Statistics (2014-2015)									Long Term Statistics (1985-2015)								
			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	4	1	<0.010	0.26	0.1325	2	0.34	36.71	no trend	40	28	<0.00590	4	0.721	-566	-6.585	0	decreasing
	1	E1D	8	8	0.207	0.712	0.408	-18	-2.013	1.77	no trend	64	47	<0.010	<3.0	4.42	585	3.34	0.04	increasing
	1	E1S	8	4	<0.010	0.26	0.1688	1	0	50	no trend	71	40	<0.00590	0.4235	0.2927	-1464	-7.263	0	decreasing
	1	E2S	12	12	0.24	0.919	0.458	-31	-2.057	1.98	no trend	76	72	0.24	2.98	1.121	-1358	-6.086	0	decreasing
	1	E4S	8	5	0.012	0.26	0.1696	1	0	50	no trend	30	9	<0.00590	0.26	0.0496	119	2.108	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	0	<0.50	<0.50	<0.50	N/A	N/A	N/A	N/A
	1	N1SR	8	4	<0.010	0.26	0.1688	1	0	50	no trend	40	4	<0.00590	0.26	0.0375	N/A	N/A	N/A	N/A
	1	N2S	2	2	0.022	0.023	0.0225	N/A	N/A	N/A	N/A	36	36	0.018	7.9	3.586	N/A	N/A	N/A	N/A
	1	N3S	8	4	<0.010	0.26	0.1688	1	0	50	no trend	69	7	<0.00590	<3.0	0.1217	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	10	0	<0.010	<0.50	0.1335	N/A	N/A	N/A	N/A	
	1	NE1S	8	4	<0.010	0.26	0.1688	1	0	50	no trend	53	4	<0.00590	0.26	0.03056	N/A	N/A	N/A	N/A
	1	S10S	8	8	0.026	0.26	0.1313	-13	-1.485	6.88	no trend	54	54	0.026	7.71	2.11	-1223	-9.117	0	decreasing
	1	S11S	7	3	<0.010	0.26	0.1557	2	0.15	44.03	no trend	49	4	<0.00590	0.26	0.0265	N/A	N/A	N/A	N/A
	1	SE1D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	50	4	<0.00590	0.26	0.031	N/A	N/A	N/A	N/A
	1	SE1S	8	4	<0.010	0.26	0.1688	1	0	50	no trend	50	4	<0.00590	0.26	0.031	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	13	13	5.2	53.6	30.2	-36	-2.135	1.64	no trend	69	61	<0.02	53.6	15.58	1330	6.884	0	increasing
	2	E3D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	59	7	<0.00590	0.26	0.0499	N/A	N/A	N/A	N/A
	2	E4D	12	8	<0.02	0.26	0.092	-19	-1.237	10.8	no trend	34	30	<0.02	0.26	0.0602	-93	-1.364	8.62	no trend
	2	N1D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	65	4	<0.00590	<3.0	0.128	N/A	N/A	N/A	N/A
	2	N2D	8	8	0.045	0.26	0.1294	-5	-0.495	31.04	no trend	71	57	<0.02	<3.0	0.1335	289	1.43	7.64	no trend
	2	N3D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	63	4	<0.00590	<3.0	0.1052	N/A	N/A	N/A	N/A
	2	N5D	8	8	0.023	0.26	0.133	-11	-1.247	10.63	no trend	53	51	<0.010	0.26	0.0407	616	4.718	0	increasing
	2	N5S	8	4	<0.010	0.26	0.1688	1	0	50	no trend	53	4	<0.00590	0.26	0.03056	N/A	N/A	N/A	N/A
	2	NE1D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	53	4	<0.00590	0.26	0.03056	N/A	N/A	N/A	N/A
	2	S11D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	51	4	<0.00590	0.26	0.03157	N/A	N/A	N/A	N/A
	2	W1D	8	4	<0.010	0.26	0.1688	1	0	50	no trend	61	4	<0.00590	<3.0	0.117	N/A	N/A	N/A	N/A
	2	W2S	7	3	<0.010	0.26	0.1686	0	0	50	no trend	52	5	<0.00590	0.26	0.02796	N/A	N/A	N/A	N/A
	WSW	DNR	8	4	<0.010	0.26	0.1688	1	0	50	no trend	60	4	<0.00590	0.26	0.0522	N/A	N/A	N/A	N/A
	WSW	DOT	8	4	<0.010	0.26	0.1688	1	0	50	no trend	61	4	<0.00590	<3.0	0.0964	N/A	N/A	N/A	N/A
WSW	S7	8	4	<0.010	0.26	0.1688	1	0	50	no trend	60	4	<0.00590	<3.0	0.0938	N/A	N/A	N/A	N/A	
WSW	STP	8	4	<0.010	0.26	0.1688	1	0	50	no trend	59	4	<0.00590	<3.0	0.0954	N/A	N/A	N/A	N/A	
WSW	WR1	8	4	<0.010	0.26	0.1688	1	0	50	no trend	57	4	<0.00590	0.26	0.09	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
2015 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 ("H2O)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-AS-BA	2/3/2015 11:25	0	0.1	20.6	79.3									29.93		48
IC-AS-BA	4/30/2015 9:09	0	0.1	20.8	79.1									30.12		56
IC-AS-BA	8/5/2015 8:01	0	0	20.9	79.1									29.84		63
IC-AS-IV	2/3/2015 11:20	0	0.2	20.5	79.3									29.93		48
IC-AS-IV	4/30/2015 9:05	0	0.1	20.8	79.1									30.12		56
IC-AS-IV	8/5/2015 7:58	0	0.1	20.9	79									29.84		63
IC-AS-LD	2/3/2015 11:23	0	0.1	20.5	79.4									29.93		48
IC-AS-LD	4/30/2015 9:10	0	0.1	20.7	79.2									30.12		56
IC-AS-LD	8/5/2015 8:02	0	0	20.9	79.1									29.85		63
IC-AS-OF	2/3/2015 11:26	0	0.1	20.5	79.4									29.93		48
IC-AS-OF	4/30/2015 9:08	0	0.1	20.8	79.1									30.11		56
IC-AS-OF	8/5/2015 8:04	0	0	20.9	79.1									29.85		63
IC-AS-OV	2/3/2015 11:22	0	0.1	20.5	79.4									29.93		48
IC-AS-OV	4/30/2015 9:06	0	0.1	20.8	79.1									30.12		56
IC-AS-OV	8/5/2015 7:59	0	0.1	20.9	79									29.84		63
IC-BL-LG	2/3/2015 10:10	30.2	17.2	1.6	51	47	47	-80.2	-46.2			0	0	29.89		48
IC-BL-LG	3/18/2015 9:04	27.1	16.5	1.6	54.8	49	49	-42.5	-42.4			0	0	30.11		53
IC-BL-LG	4/29/2015 9:18	27.4	17.1	0.9	54.6	62	62	-41	-41			0	0	30.05		58
IC-BL-LG	6/16/2015 8:18	28.6	18.7	1.3	51.4	61	61	-41.8	-41.8			0	0	29.9		59
IC-BL-LG	8/4/2015 9:42	23.3	16.9	3.1	56.7	66	66	-40.9	-40.9			0	0	29.77		68
IC-BL-LG	9/15/2015 8:12	25.2	15.2	6.8	52.8	52	52	-41.1	-40.8			0	0	29.63		63
IC-BL-LG	10/28/2015 9:05	9.7	6.4	14	69.9	53	53	-42.1	-41.7			0	0	29.73		55
IC-BL-LG	12/10/2015 7:54	31.6	15.9	3.5	49	43	43	-39.3	-39.3			0	0	28.85		49
IC-BL-SV	3/18/2015 9:06	0.1	0.5	21.1	78.3	51	51	-50.4	-51			0	0	30.11		53
IC-BL-SV	4/29/2015 9:20	9.4	10.1	8.5	72	64	64	-49.2	-48.7			0	0	30.05		58
IC-BL-SV	6/16/2015 8:21	0	1.5	20.2	78.3	59	0	0	0	-0.033	-0.036	0	0	29.89		59
IC-BL-SV	8/4/2015 9:43	0.1	0.6	19.8	79.5	63	63	0	0.1	0.058	0.05	0	0	29.77		68
IC-BL-SV	9/15/2015 9:25	4.1	3.7	17.3	74.9	52	52	-44.1	-44.4			0	0	29.62		63
IC-BL-SV	10/28/2015 9:06	0	0.5	20.3	79.2	54	54	-48.9	-48.5			0	0	29.73		55
IC-BL-SV	12/10/2015 7:52	0	0.2	21	78.8	43	44	-47.8	-47.9			0	0	28.85		49
IC-FL-In	2/3/2015 10:11	29.6	17	1.8	51.6	55	55	1.1	1.1	-1.212	-1.071	0	0	29.89		48
IC-FL-In	3/18/2015 9:07	27.1	16.4	1.7	54.8	57	57	1.2	1.2	-1.361	-1.249	0	0	30.11		53
IC-FL-In	4/29/2015 9:21	27.4	17	0.9	54.7	69	69	1.2	1.2	-1.197	-1.151	0	0	30.05		58
IC-FL-In	6/16/2015 8:23	28.9	18.6	1.4	51.1	66	66	1	1.1	-1.291	-1.236	0	0	29.89		59
IC-FL-In	8/4/2015 9:45	26.1	18.7	1.2	54	71	71	1.4	1.4	-1.19	-1.164	0	0	29.77		68
IC-FL-In	9/15/2015 8:15	35.2	21.3	1.1	42.4	56	56	1.1	1.1	-1.175	-0.892	0	0	29.63		63
IC-FL-In	10/28/2015 9:07	29.2	19.2	0.5	51.1	61	61	0.8	1.2	-1.084	-1.427	0	0	29.73		55
IC-FL-In	12/10/2015 7:56	38.3	19.5	0.6	41.6	44	45	0.9	0.9	-0.803	-0.864	0	0	28.86		49
IC-GP11D	2/3/2015 9:12	0	2.1	19.6	78.3									29.9		48
IC-GP11D	4/29/2015 8:10	0	1.7	19	79.3									30.07		58
IC-GP11D	8/4/2015 10:04	0	1.1	19.1	79.8									29.79		68
IC-GP11D	10/28/2015 10:19	0	1.2	19.8	79									29.76		53
IC-GP11S	2/3/2015 9:03	0	1.9	19.8	78.3									29.9		48
IC-GP11S	4/29/2015 8:09	0	2.1	18.6	79.3									30.06		58
IC-GP11S	8/4/2015 10:02	0	1.2	19	79.8									29.78		68
IC-GP11S	10/28/2015 10:18	0	1.3	19.7	79									29.76		53
IC-GP13D	2/3/2015 9:46	0	1.7	19	79.3									29.9		48
IC-GP13D	4/29/2015 8:25	0	0.9	19.5	79.6									30.07		58
IC-GP13D	8/4/2015 10:17	0	1.5	18.7	79.8									29.78		68
IC-GP13D	10/29/2015 7:25	0	1.2	19.6	79.2									29.85		53
IC-GP13S	2/3/2015 9:41	0	0.5	20.8	78.7									29.9		48
IC-GP13S	4/29/2015 8:22	0	0.2	20.5	79.3									30.1		58
IC-GP13S	8/4/2015 10:15	0	1.8	18.7	79.5									29.81		68
IC-GP13S	10/29/2015 7:24	0	0.7	20.1	79.2									29.85		53
IC-GP15D	2/3/2015 8:27	0	5.8	14.5	79.7									29.9		48
IC-GP15D	4/29/2015 7:47	0	6.1	14.1	79.8									30.06		58
IC-GP15D	8/4/2015 8:50	0	7	11.9	81.1									29.78		68
IC-GP15D	10/28/2015 8:39	0	8.1	11.1	80.8									29.72		55
IC-GP15S	2/3/2015 8:22	0.1	8.3	11.5	80.1									29.9		48
IC-GP15S	4/29/2015 7:46	0	3.5	16.9	79.6									30.05		58

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2015 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 ("H2O)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-GP155	8/4/2015 8:37	0	4.9	14.6	80.5									29.78		68
IC-GP155	10/28/2015 8:38	0	5.2	13.6	81.2									29.71		55
IC-GP17D	2/3/2015 8:37	0	3	17.8	79.2									29.9		48
IC-GP17D	4/29/2015 7:51	0	4	16.6	79.4									30.06		58
IC-GP17D	8/4/2015 8:53	0	1	19.5	79.5									29.79		68
IC-GP17D	10/28/2015 10:07	0	0.1	20.9	79									29.75		53
IC-GP17S	2/3/2015 8:32	0	5.4	14.8	79.8									29.9		48
IC-GP17S	4/29/2015 7:49	0	2.5	18.3	79.2									30.06		58
IC-GP17S	8/4/2015 8:51	0	3.2	17.2	79.6									29.79		68
IC-GP17S	10/28/2015 10:06	0	1.5	19.2	79.3									29.75		53
IC-GP-1D	2/3/2015 8:35	0	1.9	18.9	79.2									29.86		48
IC-GP-1D	4/29/2015 7:23	0	1.9	19.2	78.9									30.05		58
IC-GP-1D	8/4/2015 8:08	0	2.2	18.7	79.1									29.78		68
IC-GP-1D	10/28/2015 8:16	0	1.9	19.6	78.5									29.71		55
IC-GP-1S	2/3/2015 8:33	0	1.2	19.5	79.3									29.86		48
IC-GP-1S	4/29/2015 7:20	0	1.5	19.6	78.9									30.05		58
IC-GP-1S	8/4/2015 8:06	0	1	19.9	79.1									29.78		68
IC-GP-1S	10/28/2015 8:15	0	1.3	20.4	78.3									29.71		55
ICGP2018	2/3/2015 9:56	0	4	16.6	79.4									29.9		48
ICGP2018	4/30/2015 7:58	0	3.3	18.1	78.6									30.14		56
ICGP2018	8/5/2015 7:24	0	3.7	16.8	79.5									29.85		63
ICGP2018	10/29/2015 7:31	0	3.7	17.6	78.7									29.83		53
ICGP2038	2/3/2015 10:00	0	4.9	15.3	79.8									29.9		48
ICGP2038	4/30/2015 8:01	0	4.9	14.9	80.2									30.14		56
ICGP2038	8/5/2015 7:26	0	4.8	14.8	80.4									29.85		63
ICGP2038	10/29/2015 7:33	0	4.9	15.5	79.6									29.83		53
ICGP2058	2/3/2015 10:04	0	5.2	14.4	80.4									29.9		48
ICGP2058	4/30/2015 8:06	0	1.7	19.4	78.9									30.13		56
ICGP2058	8/5/2015 7:29	0	4.1	15.4	80.5									29.85		63
ICGP2058	10/29/2015 7:36	0	4	16.5	79.5									29.83		53
ICGP2078	2/3/2015 10:10	0	0.2	20.8	79									29.9		48
ICGP2078	4/30/2015 8:14	0	0.1	20.8	79.1									30.13		56
ICGP2078	8/5/2015 7:33	0	0.1	20.8	79.1									29.85		63
ICGP2078	10/29/2015 7:42	0	0.2	20.8	79									29.83		53
ICGP2098	2/3/2015 10:16	0	4.6	14.7	80.7									29.9		48
ICGP2098	4/30/2015 8:18	0	4	15.8	80.2									30.13		56
ICGP2098	8/5/2015 7:35	0	4	14.9	81.1									29.85		63
ICGP2098	10/29/2015 7:45	0	4.2	15.2	80.6									29.83		53
ICGP2118	2/3/2015 10:35	0	2.5	18.3	79.2									29.91		48
ICGP2118	4/30/2015 8:27	0	2.3	18.9	78.8									30.12		56
ICGP2118	8/5/2015 7:38	0	1.3	19.7	79									29.84		63
ICGP2118	10/29/2015 7:48	0	2.1	19	78.9									29.83		53
ICGP2138	2/3/2015 10:40	0	2.9	18	79.1									29.92		48
ICGP2138	4/30/2015 8:29	0	1.9	19.1	79									30.12		56
ICGP2138	8/5/2015 7:40	0	1.4	19.6	79									29.84		63
ICGP2138	10/29/2015 7:51	0	2.2	18.9	78.9									29.83		53
ICGP2158	2/3/2015 10:44	0	2.8	18.1	79.1									29.92		48
ICGP2158	4/30/2015 8:32	0	2.4	18.6	79									30.12		56
ICGP2158	8/5/2015 7:42	0	1.6	19.4	79									29.84		63
ICGP2158	10/29/2015 7:54	0	2.7	18.4	78.9									29.83		53
ICGP2178	2/3/2015 10:49	0	2.9	18.3	78.8									29.91		48
ICGP2178	4/30/2015 8:38	0	2.9	18.1	79									30.12		56
ICGP2178	8/5/2015 7:45	0	2.2	18.8	79									29.84		63
ICGP2178	10/29/2015 7:58	0	2.8	18.1	79.1									29.83		53
ICGP2198	2/3/2015 10:54	0	3.5	17.8	78.7									29.92		48
ICGP2198	4/30/2015 8:45	0	3.3	17.6	79.1									30.12		56
ICGP2198	8/5/2015 7:47	0	2.5	18.5	79									29.84		63
ICGP2198	10/29/2015 8:01	0	3.1	17.9	79									29.83		53
IC-GP-22	2/3/2015 11:07	0	2.6	17.9	79.5									29.92		48
IC-GP-22	4/30/2015 8:59	0	1.9	19.1	79									30.13		56

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2015 Annual Monitoring Report
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IC-GP-22	8/5/2015 7:55	0	2.1	18.6	79.3									29.84		63
IC-GP-22	10/29/2015 8:11	0	2.5	18.3	79.2									29.83		53
ICGP2318	2/3/2015 8:38	0	2.1	19	78.9									29.86		48
ICGP2318	4/29/2015 7:27	0	2.3	18.8	78.9									30.05		58
ICGP2318	8/4/2015 8:12	0	2	19	79									29.78		68
ICGP2318	10/28/2015 8:19	0	2.3	18.9	78.8									29.71		55
ICGP2338	2/3/2015 8:40	0	2	19.1	78.9									29.86		48
ICGP2338	4/29/2015 7:30	0	2.2	18.8	79									30.05		58
ICGP2338	8/4/2015 8:14	0	2	19	79									29.78		68
ICGP2338	10/28/2015 8:21	0	2.2	19	78.8									29.71		55
ICGP2358	2/3/2015 8:44	0	2	18.9	79.1									29.86		48
ICGP2358	4/29/2015 7:35	0	1.3	19.6	79.1									30.06		58
ICGP2358	8/4/2015 8:18	0	2.6	18.2	79.2									29.78		68
ICGP2358	10/28/2015 8:24	0	1.6	19.5	78.9									29.71		55
ICGP2378	2/3/2015 8:49	0	0.2	20.7	79.1									29.86		48
ICGP2378	4/29/2015 7:39	0	0.1	20.7	79.2									30.06		58
ICGP2378	8/4/2015 8:22	0	0.1	20.8	79.1									29.78		68
ICGP2378	10/28/2015 8:27	0	3	17.6	79.4									29.71		55
ICGP2398	2/3/2015 8:52	0	2	18.8	79.2									29.86		48
ICGP2398	4/29/2015 7:42	0	2.5	18.1	79.4									30.06		58
ICGP2398	8/4/2015 8:23	0	1.6	19.1	79.3									29.78		68
ICGP2398	10/28/2015 8:31	0	2.4	18.4	79.2									29.72		55
ICGP2418	2/3/2015 8:15	0	0.2	20.4	79.4									29.86		48
ICGP2418	4/29/2015 6:57	0	2.8	17.8	79.4									30.05		58
ICGP2418	8/4/2015 7:50	0	3.4	16.9	79.7									29.78		68
ICGP2418	10/28/2015 7:58	0	3.3	17.3	79.4									29.71		55
ICGP2438	2/3/2015 8:17	0	1.4	18.4	80.2									29.86		48
ICGP2438	4/29/2015 7:00	0	2.3	17.7	80									30.05		58
ICGP2438	8/4/2015 7:52	0	2.6	17.3	80.1									29.78		68
ICGP2438	10/28/2015 8:01	0	3.4	16.5	80.1									29.71		55
ICGP2458	2/3/2015 8:20	0	1	20.1	78.9									29.86		48
ICGP2458	4/29/2015 7:03	0	0.7	20.7	78.6									30.05		58
ICGP2458	8/4/2015 7:54	0	1.8	19.8	78.4									29.78		68
ICGP2458	10/28/2015 8:04	0	3.3	15.9	80.8									29.71		55
ICGP2478	2/3/2015 8:25	0	0.3	20.5	79.2									29.88		48
ICGP2478	4/29/2015 7:09	0	0.2	20.9	78.9									30.05		58
ICGP2478	8/4/2015 7:57	0	1.4	19.2	79.4									29.78		68
ICGP2478	10/28/2015 8:09	0	2.9	15.9	81.2									29.71		55
ICGP2498	2/3/2015 8:29	0	0.1	20.6	79.3									29.86		48
ICGP2498	4/29/2015 7:16	0	0.1	20.8	79.1									30.05		58
ICGP2498	8/4/2015 8:02	0	0.1	20.8	79.1									29.78		68
ICGP2498	10/28/2015 8:12	0	2.7	16.1	81.2									29.71		55
ICGP2518	2/3/2015 7:26	0	5.7	15.9	78.4									29.85		48
ICGP2518	4/29/2015 6:28	0	6.7	14.7	78.6									30.07		58
ICGP2518	8/4/2015 7:28	0	7.8	13.9	78.3									29.8		68
ICGP2518	10/28/2015 7:29	0	7.9	14.1	78									29.72		55
ICGP2538	2/3/2015 7:29	0	5.1	16.6	78.3									29.86		48
ICGP2538	4/29/2015 6:31	0	4.9	16.4	78.7									30.06		58
ICGP2538	8/4/2015 7:31	0	5.3	15.4	79.3									29.8		68
ICGP2538	10/28/2015 7:32	0	5.9	15.4	78.7									29.72		55
ICGP2558	2/3/2015 7:35	0	4.6	16.8	78.6									29.85		48
ICGP2558	4/29/2015 6:36	0	2.8	18.3	78.9									30.06		58
ICGP2558	8/4/2015 7:35	0	4.4	16.1	79.5									29.8		68
ICGP2558	10/28/2015 7:35	0	4.6	16.1	79.3									29.72		55
ICGP2578	2/3/2015 7:38	0	4.5	16.8	78.7									29.85		48
ICGP2578	4/29/2015 6:40	0	4.6	16.5	78.9									30.06		58
ICGP2578	8/4/2015 7:37	0	4.5	16.1	79.4									29.79		68
ICGP2578	10/28/2015 7:39	0	4.6	16.3	79.1									29.71		55
ICGP2598	2/3/2015 7:44	0	0.3	20.8	78.9									29.85		48
ICGP2598	4/29/2015 6:48	0	0.2	20.9	78.9									30.06		58

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Coupeville Solid Waste Facility, Island County, Washington**

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ICGP2598	8/4/2015 7:42	0	2.3	18.3	79.4									29.79		68
ICGP2598	10/28/2015 7:44	0	4	16.7	79.3									29.72		55
ICGP2618	2/3/2015 9:21	0	3.4	16.1	80.5									29.93		48
ICGP2618	4/29/2015 8:14	0	0.5	20	79.5									30.06		58
ICGP2618	8/4/2015 10:08	0	1	18.8	80.2									29.78		68
ICGP2618	10/28/2015 10:23	0	3.3	15.3	81.4									29.76		53
ICGP2638	2/3/2015 9:26	0	2.1	18.7	79.2									29.94		48
ICGP2638	2/3/2015 9:37	0	3.2	15.9	80.9									29.94		48
ICGP2638	4/29/2015 8:16	0	1.8	17.9	80.3									30.1		58
ICGP2638	8/4/2015 10:09	0	2.2	17.3	80.5									29.81		68
ICGP2638	10/28/2015 10:25	0	2.6	17.9	79.5									29.79		53
ICGP2658	4/29/2015 8:19	0	2.6	16.2	81.2									30.1		58
ICGP2658	8/4/2015 10:12	0	2.5	15.6	81.9									29.81		68
ICGP2658	10/28/2015 10:28	0	2.8	15.9	81.3									29.79		53
IC-GP-27	2/3/2015 9:52	0	5.2	14	80.8									29.89		48
IC-GP-27	4/30/2015 7:55	0	4.2	13.3	82.5									30.14		56
IC-GP-27	8/4/2015 10:20	0	4	13.5	82.5									29.77		68
IC-GP-27	10/29/2015 7:28	0	4.8	14.4	80.8									29.84		53
IC-GP-28	2/3/2015 10:27	0	0.6	20.1	79.3									29.91		48
IC-GP-28	4/30/2015 8:53	0	0.2	20.7	79.1									30.12		56
IC-GP-28	8/5/2015 7:49	0	4	15.5	80.5									29.84		63
IC-GP-28	10/29/2015 8:04	0	4.9	14.9	80.2									29.83		53
ICGP2998	2/3/2015 11:00	0	2	18.4	79.6									29.92		48
ICGP2998	4/30/2015 8:57	0	1.7	18.8	79.5									30.13		56
ICGP2998	8/5/2015 7:53	0	1.8	18.7	79.5									29.84		63
ICGP2998	10/29/2015 8:09	0	2.4	17.4	80.2									29.83		53
ICGP3018	2/3/2015 8:58	36.6	10.6	0	52.8									29.85		48
ICGP3018	3/18/2015 8:29	33.8	10.6	0	55.6									30.12		53
ICGP3018	4/29/2015 9:28	29.6	11.3	0	59.1									30.04		58
ICGP3018	8/4/2015 9:28	26.2	11.7	0	62.1									29.77		68
ICGP3018	10/28/2015 9:44	27.6	12	0	60.4									29.73		55
ICGP3018	12/10/2015 7:25	29.9	11.2	0	58.9									28.88		49
ICGP3038	2/3/2015 9:02	24.9	14.3	0	60.8									29.86		48
ICGP3038	3/18/2015 8:33	21.9	12.6	0	65.5									30.12		53
ICGP3038	4/29/2015 9:32	17.9	12.7	0	69.4									30.05		58
ICGP3038	8/4/2015 9:31	15.5	12.8	0	71.7									29.78		68
ICGP3038	10/28/2015 9:47	16.3	13.2	0	70.5									29.74		55
ICGP3038	12/10/2015 7:28	22.5	12.8	0	64.7									28.88		49
ICGP3069	2/3/2015 9:09	3.2	18.1	0	78.7									29.86		48
ICGP3069	3/18/2015 8:36	2.3	13.3	6	78.4									30.12		53
ICGP3069	4/29/2015 9:38	3.4	16.9	0	79.7									30.05		58
ICGP3069	8/4/2015 9:34	2	12.1	6.7	79.2									29.78		68
ICGP3069	10/28/2015 9:50	2.3	14.1	4.5	79.1									29.74		55
ICGP3069	12/10/2015 7:33	3.1	16.7	0	80.2									28.87		49
ICGP3081	2/3/2015 9:12	0.7	11	9.3	79									29.87		48
ICGP3081	3/18/2015 8:41	1.2	15	3.4	80.4									30.12		53
ICGP3081	4/29/2015 9:39	3.3	17.1	1.1	78.5									30.04		58
ICGP3081	4/29/2015 9:43	1	13.6	4.5	80.9									30.04		58
ICGP3081	8/4/2015 9:37	0.8	10	9.6	79.6									29.78		68
ICGP3081	10/28/2015 9:54	1	13.6	5.1	80.3									29.74		55
ICGP3081	12/10/2015 7:40	0.1	16	0.3	83.6									28.86		49
ICGP3092	2/3/2015 9:14	0	5.6	15.3	79.1									29.86		48
ICGP3092	3/18/2015 8:46	0.1	11.2	9.2	79.5									30.12		53
ICGP3092	4/29/2015 9:47	0.1	11.9	6.7	81.3									30.04		58
ICGP3092	8/4/2015 9:39	0.1	6.9	13.3	79.7									29.78		68
ICGP3092	10/28/2015 9:57	0	11.5	8	80.5									29.74		55
ICGP3092	12/10/2015 7:47	0	13.9	3.4	82.7									28.85		49
IC-GP-6D	2/3/2015 8:12	0	0.3	20.2	79.5									29.86		48
IC-GP-6D	4/29/2015 6:54	0	0.1	20.9	79									30.05		58
IC-GP-6D	8/4/2015 7:47	0	1.3	19.6	79.1									29.78		68

**Table 8. Landfill Gas Monitoring Data
2015 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 ("H2O)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-GP-6D	10/28/2015 7:54	0	2.9	17.7	79.4									29.71		55
IC-GP-6S	2/3/2015 8:10	0	0.5	20.2	79.3									29.86		48
IC-GP-6S	4/29/2015 6:52	0	0.2	20.9	78.9									30.05		58
IC-GP-6S	8/4/2015 7:45	0	1.4	19.4	79.2									29.78		68
IC-GP-6S	10/28/2015 7:52	0	0.8	20.8	78.4									29.71		55
IC-GP56D	2/3/2015 8:47	0	8.2	9.7	82.1									29.89		48
IC-GP56D	4/29/2015 7:58	0	8.3	9.1	82.6									30.06		58
IC-GP56D	8/4/2015 9:55	0	0.1	20.1	79.8									29.78		68
IC-GP56D	10/28/2015 10:11	0	3.1	17.6	79.3									29.75		53
IC-GP56S	2/3/2015 8:43	0	9.7	8.2	82.1									29.89		48
IC-GP56S	4/29/2015 7:53	0	8.8	9.8	81.4									30.06		58
IC-GP56S	8/4/2015 9:54	0	0.1	20.1	79.8									29.77		68
IC-GP56S	10/28/2015 10:09	0	8.4	9.8	81.8									29.75		53
IC-GP-W1	2/3/2015 8:56	0	3.4	18.7	77.9									29.88		48
IC-GP-W1	4/29/2015 8:06	0	1.5	19.1	79.4									30.06		58
IC-GP-W1	8/4/2015 9:59	0	1.3	18.9	79.8									29.79		68
IC-GP-W1	10/28/2015 10:14	0	1.2	19.9	78.9									29.75		53
IC-HGW-1	2/3/2015 9:28	30.1	18.9	0	51	49	49	-0.6	-0.6	-0.165	-0.106			29.84	-19	48
IC-HGW-1	3/18/2015 10:12	26	15.7	1.4	56.9	62	62	-0.3	-0.3	0.003	0	0	0	30.09	-5.54	53
IC-HGW-1	4/29/2015 8:38	27.2	18.2	0	54.6	59	59	-0.7	-0.6	-0.031	-0.022			30.02	-17.53	58
IC-HGW-1	6/16/2015 9:14	23.8	19.3	0	56.9	58	57	-0.7	-0.7	-0.005	0	0	0	29.89	-17.63	59
IC-HGW-1	8/4/2015 8:58	20.2	19.5	1.1	59.2	66	65	-0.6	-0.6	0.007	0.002	0	0	29.75	-17.35	68
IC-HGW-1	9/15/2015 8:19	49.7	25.6	0	24.7	54	54	-0.6	-0.5	0.182	0.169	0	0	29.6	-18.16	63
IC-HGW-1	10/28/2015 9:14	28.5	18	3.7	49.8	51	51	-0.9	-1	-0.098	-0.004			29.7	-18.46	55
IC-HGW-1	12/10/2015 8:05	32.9	20.3	0	46.8	45	45	0	0	-0.01	-0.051			28.86	-16.49	49
IC-HGW-2	2/3/2015 9:33	53.9	24.1	0	22	50	50	-0.4	-0.4	9.515	9.686	2	2	29.85	-19.02	48
IC-HGW-2	3/18/2015 10:18	43.7	21.8	0	34.5	58	58	-0.2	-0.2	0.001	0.002	0	0	30.09	-0.43	53
IC-HGW-2	4/29/2015 8:42	45.6	23.4	0	31	57	57	-0.5	-0.5	2.624	2.648	1	1	30.03	-17.57	58
IC-HGW-2	6/16/2015 9:18	46.5	25.8	0	27.7	61	61	-0.5	-0.5	2.759	2.758	1	1	29.89	-17.73	59
IC-HGW-2	8/4/2015 9:02	38.3	26.5	0	35.2	68	68	-0.4	-0.4	2.607	2.814	1	1	29.75	-17.34	68
IC-HGW-2	9/15/2015 8:23	55.4	29.9	0	14.7	65	66	-0.3	-0.3	2.792	2.679	1	1	29.6	-18.27	63
IC-HGW-2	10/28/2015 9:18	44.3	24.9	0	30.8	60	60	-0.6	-0.7	2.446	1.74	1	1	29.71	-18.27	55
IC-HGW-2	12/10/2015 8:11	62.4	27.8	0	9.8	52	53	0.2	0.2	2.109	2.108	1	1	28.83	-16.97	49
IC-HGW-3	2/3/2015 9:35	51.7	27.4	0	20.9	48	48	-0.2	-0.2	2.309	2.426	1	1	29.85	-19.04	48
IC-HGW-3	3/18/2015 10:20	31.6	21.7	0	46.7	57	58	-0.1	-0.1	-0.002	0.001	0	0	30.09	-0.36	53
IC-HGW-3	4/29/2015 8:45	40.6	25	0	34.4	58	58	-0.2	-0.2	2.916	2.961	1	1	30.03	-17.6	58
IC-HGW-3	6/16/2015 9:20	47	28	0	25	60	60	-0.2	-0.2	2.642	2.645	1	1	29.89	-17.73	59
IC-HGW-3	8/4/2015 9:04	34.5	27.4	0	38.1	65	66	-0.1	-0.1	2.557	2.62	1	1	29.75	-17.14	68
IC-HGW-3	9/15/2015 8:25	58	35	0	7	61	61	0	0	2.699	2.656	1	1	29.59	-19.53	63
IC-HGW-3	10/28/2015 9:20	37.1	26.9	0	36	54	54	-0.2	-0.2	2.381	2.373	1	1	29.71	-18.54	55
IC-HGW-3	12/10/2015 8:13	51.4	27.2	0	21.4	48	48	0.5	0.5	2.167	2.16	1	1	28.84	-17.12	49
IC-HGW-4	2/3/2015 9:38	53.7	26.8	0	19.5	48	48	-0.2	-0.2	3.197	3.158	1	1	29.85	-19.28	48
IC-HGW-4	3/18/2015 10:23	42.5	23.8	0	33.7	59	59	0	0	-0.006	-0.002			30.09	-0.31	53
IC-HGW-4	4/29/2015 8:48	46	26	0	28	58	58	-0.2	-0.2	3.416	3.44	1	1	30.03	-17.92	58
IC-HGW-4	6/16/2015 9:40	50.3	27.8	0	21.9	61	61	-0.2	-0.1	3.567	3.569	1	1	29.87	-17.67	59
IC-HGW-4	8/4/2015 9:07	42.5	28.4	0	29.1	65	66	-0.1	-0.1	3.566	3.543	1	1	29.76	-17.26	68
IC-HGW-4	9/15/2015 8:28	58.8	32.7	0	8.5	61	61	0	0	3.369	3.384	1	1	29.6	-18.37	63
IC-HGW-4	10/28/2015 9:24	47.1	28.1	0	24.8	55	55	-0.2	-0.2	2.6	2.223	1	1	29.71	-18.49	55
IC-HGW-4	12/10/2015 8:17	59.8	25	0	15.2	48	48	0.8	0.8	2.829	2.833	1	1	28.84	-17.3	49
IC-HGW-5	2/3/2015 9:48	50.3	23.8	0	25.9	49	49	-0.3	-0.3	3.653	3.641	1	1	29.86	-19.37	48
IC-HGW-5	3/18/2015 10:25	52.2	23.9	0	23.9	60	60	0	0	-0.002	-0.003			30.09	-0.29	53
IC-HGW-5	4/29/2015 8:49	47.8	23.9	0	28.3	59	59	-0.2	-0.2	3.724	3.76	1	1	30.03	-17.89	58
IC-HGW-5	6/16/2015 9:42	52.5	26.8	0	20.7	62	62	-0.2	-0.2	3.569	3.578	1	1	29.87	-17.68	59
IC-HGW-5	8/4/2015 9:09	43.8	26.6	0	29.6	67	67	-0.1	-0.1	3.46	3.43	1	1	29.76	-17.31	68
IC-HGW-5	9/15/2015 8:30	52.4	28.2	0	19.4	62	62	-0.1	-0.1	3.651	3.603	1	1	29.6	-18.4	63
IC-HGW-5	10/28/2015 9:26	48.6	26.4	0	25	57	57	-0.2	-0.2	3.637	2.982	1	1	29.71	-18.43	55
IC-HGW-5	12/10/2015 8:19	32.2	20.7	0	47.1	49	49	0.8	0.8	2.481	2.461	1	1	28.84	-17.27	49
IC-HGW-6	2/3/2015 9:50	43.9	15.4	0	40.7	48	48	-0.2	-0.2	2.244	2.206	1	1	29.86	-19.27	48
IC-HGW-6	3/18/2015 10:28	29.6	14.2	0	56.2	60	60	0	0	-0.008	-0.008			30.09	-0.16	53
IC-HGW-6	4/29/2015 8:51	31.3	15	0	53.7	58	59	-0.2	-0.2	2.451	2.444	1	1	30.03	-17.99	58

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IC-HGW-6	6/16/2015 9:43	36.3	15.9	0	47.8	62	63	-0.1	-0.1	2.324	2.34	1	1	29.88	-17.82	59
IC-HGW-6	8/4/2015 9:10	37.4	17.4	0	45.2	68	68	-0.1	0	2.351	2.404	1	1	29.76	-17.33	68
IC-HGW-6	9/15/2015 8:31	50.1	20	0	29.9	63	63	0	0	2.148	2.127	1	1	29.6	-18.52	63
IC-HGW-6	10/28/2015 9:27	46.2	18.9	0	34.9	55	56	-0.2	-0.2	2.034	1.924	1	1	29.71	-18.58	55
IC-HGW-6	12/10/2015 8:20	38.8	18.9	0	42.3	47	47	0.7	0.7	1.784	1.784	1	1	28.84	-17.33	49
IC-HGW-7	2/3/2015 9:54	37.2	17.7	0	45.1	47	47	-0.3	-0.2	0.746	0.771	0	0	29.87	-19.29	48
IC-HGW-7	3/18/2015 10:31	23.4	16.3	0	60.3	60	60	0	0	-0.002	-0.015	0	0	30.09	-0.2	53
IC-HGW-7	4/29/2015 8:58	24	17	0	59	59	59	-0.2	-0.2	0.873	0.876	0	0	30.04	-18.2	58
IC-HGW-7	6/16/2015 9:46	32.4	18.8	0	48.8	59	60	-0.1	-0.1	0.847	0.925	0	0	29.89	-17.67	59
IC-HGW-7	8/4/2015 9:13	30.5	19.4	0	50.1	67	67	0	0	1.078	1.05	0	0	29.76	-17.42	68
IC-HGW-7	9/15/2015 8:35	42.9	22.8	0	34.3	60	61	0	0	0.987	0.998	0	0	29.6	-18.53	63
IC-HGW-7	10/28/2015 9:31	40	21.3	0	38.7	54	54	-0.1	0	0.532	0.524	0	0	29.72	-18.57	55
IC-HGW-7	12/10/2015 8:24	35.2	21.9	0	42.9	47	47	0.7	0.7	0.882	0.939	0	0	28.84	-17.33	49
IC-HGW-8	2/3/2015 9:57	34.2	15.9	0	49.9	47	47	-0.3	-0.3	0.818	0.843	0	0	29.87	-19.42	48
IC-HGW-8	3/18/2015 10:34	16.2	14.7	0	69.1	59	59	-0.1	-0.1	-0.011	-0.012	0	0	30.09	-0.1	53
IC-HGW-8	4/29/2015 9:02	16.7	15.6	0	67.7	59	59	-0.3	-0.3	0.848	0.844	0	0	30.04	-18.16	58
IC-HGW-8	6/16/2015 9:49	21.7	16.9	0	61.4	61	61	-0.2	-0.2	0.825	0.832	0	0	29.89	-17.82	59
IC-HGW-8	8/4/2015 9:16	22.9	18.4	0	58.7	68	69	0	-0.1	0.837	0.909	0	0	29.77	-17.26	68
IC-HGW-8	9/15/2015 8:37	34.1	20	0	45.9	60	61	-0.1	-0.1	1.035	1.133	0	0	29.61	-18.36	63
IC-HGW-8	10/28/2015 9:34	31.1	18.6	0	50.3	53	54	-0.3	-0.4	1.437	1.073	1	0	29.72	-18.63	55
IC-HGW-8	12/10/2015 8:27	28.9	18.7	0	52.4	46	46	0.6	0.6	0.774	0.774	0	0	28.85	-17.54	49
IC-HGW-9	2/3/2015 10:03	1.3	1.2	19.3	78.2	47	47	-1.6	-1.6	-0.189	-0.087	0	0	29.88	-19.36	48
IC-HGW-9	3/18/2015 10:40	7.9	4.7	16.2	71.2	62	62	-0.6	-0.6	0.019	-0.019	0	0	30.1	-0.08	53
IC-HGW-9	4/29/2015 9:10	1.3	1.3	19.8	77.6	60	60	-2.4	-2.4	-0.053	-0.024	0	0	30.05	-17.73	58
IC-HGW-9	6/16/2015 9:55	12.8	6.8	12.7	67.7	57	57	-1.3	-1.3	-0.022	-0.025	0	0	29.9	-17.67	59
IC-HGW-9	8/4/2015 9:23	1.4	1.2	19.2	78.2	63	64	-1.1	-1.1	0.003	-0.01	0	0	29.78	-17.15	68
IC-HGW-9	9/15/2015 8:43	5.6	3.3	17.7	73.4	53	53	-1.4	-1.3	-0.06	-0.045	0	0	29.62	-18.28	63
IC-HGW-9	10/28/2015 9:40	1.9	1.7	19.1	77.3	50	50	-1.5	-1.5	-0.095	-0.106	0	0	29.73	-18.67	55
IC-HGW-9	12/10/2015 8:35	22.2	10.7	7.4	59.7	44	45	-2.1	-2.2	-0.103	-0.041	0	0	28.87	-17.46	49
IC-SC-OF	2/3/2015 11:32	0	0.1	20.5	79.4									29.93		48
IC-SC-OF	4/30/2015 9:02	0	0.1	20.9	79									30.12		56
IC-SC-OF	8/5/2015 8:12	0	0	20.8	79.2									29.84		63
IC-SC-OF	10/29/2015 8:33	0	0.1	20.9	79									29.83		53
IC-SH-BA	2/3/2015 11:33	0	0.1	20.5	79.4									29.92		48
IC-SH-BA	4/30/2015 9:01	0	0.2	20.8	79									30.12		56
IC-SH-BA	8/5/2015 8:10	0	0	20.8	79.2									29.84		63
IC-SH-BA	10/29/2015 8:32	0	0.1	20.9	79									29.83		53
IC-T-LG	2/3/2015 10:08	30.3	17.2	1.6	50.9	47	47	-20.3	-20.2	20.464	20.477	0	0	29.89		48
IC-T-LG	3/18/2015 9:02	27.4	16.5	1.5	54.6	49	49	-19.2	-19.2	19.45	19.486	0	0	30.11		53
IC-T-LG	4/29/2015 9:15	27.3	16.9	1	54.8	62	62	-18.4	-18.4	18.673	18.659	0	0	30.05		58
IC-T-LG	6/16/2015 8:13	28.5	18.3	1.7	51.5	61	61	-18.8	-18.8	18.746	18.75	0	0	29.91		59
IC-T-LG	8/4/2015 9:46	23.3	17	3	56.7	66	66	-17.5	-17.5	17.6	17.598	0	0	29.77		68
IC-T-LG	9/15/2015 8:11	28.8	17.4	4.8	49	52	52	-19	-19.2	18.951	19.401	0	0	29.63		63
IC-T-LG	10/28/2015 9:03	28.5	18.9	1	51.6	53	53	-19.9	-18.9	19.912	18.918	0	0	29.73		55
IC-T-LG	12/10/2015 7:58	35.3	18.4	1.4	44.9	44	44	-17.7	-17.4	17.662	17.58	0	0	28.86		49
IC-T-SV	3/18/2015 8:51	5.2	7.9	10.9	76	51	51	-21.3	-18	21.639	18.3	0	0	30.11		53
IC-T-SV	4/29/2015 9:17	9.5	10	8.4	72.1	64	64	-20.2	-20.3	20.475	20.521	0	0	30.05		58
IC-T-SV	6/16/2015 8:11	0	0.3	20.2	79.5	59	59	0	0	0.059	0.055	0	0	29.9		59
IC-T-SV	8/4/2015 9:48	0	0.5	19.8	79.7	63	63	0	0	0.092	0.097	0	0	29.77		68
IC-T-SV	9/15/2015 9:22	4.2	3.7	17.2	74.9	52	52	-19.3	-19.1	19.256	19.042	0	0	29.62		63
IC-T-SV	10/28/2015 9:00	0	0.4	20.3	79.3	54	54	-26.2	-17.5	25.142	17.184	0	0	29.73		55
IC-T-SV	12/10/2015 8:00	0	2	18.8	79.2	44	44	-19.7	-17.4	19.73	17.335	0	0	28.86		49
IC-VGW-1	2/3/2015 9:30	16.4	12.1	1.1	70.4	47	47	-0.2	-0.2	-0.03	-0.025	0	0	29.85	-0.06	48
IC-VGW-1	3/18/2015 10:15	8.4	14.1	0.1	77.4	59	60	-0.1	-0.1	-0.004	-0.003	0	0	30.09	-20.99	53
IC-VGW-1	4/29/2015 8:40	8.2	14.7	0	77.1	58	58	-0.3	-0.3	-0.034	-0.021	0	0	30.03	-18.36	58
IC-VGW-1	6/16/2015 9:15	0.6	1.5	19.6	78.3	55	55	-0.3	-0.3	-0.006	-0.003	0	0	29.89	-0.03	59
IC-VGW-1	8/4/2015 8:59	3.2	4.8	13.7	78.3	61	62	-0.1	-0.1	-0.015	-0.012	0	0	29.76	-0.04	68
IC-VGW-1	9/15/2015 10:07	6.2	6.8	10	77.2	63	63	-0.4	-0.4	1.614	1.604	1	1	29.61	-19.3	63
IC-VGW-1	10/28/2015 9:15	0.4	15.1	0	84.5	49	49	-0.3	-0.3	-0.002	0	0	0	29.71	-12.13	55
IC-VGW-1	12/10/2015 8:08	1.4	15.4	0	83.2	44	44	1.3	1.3	-0.001	-0.002	0	0	28.82	-16.79	49

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2015 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 ("H2O)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-VGW-2	2/3/2015 9:31	51.7	13.1	0	35.2	45	45	-0.3	-0.3	1.278	1.272	1	1	29.85	-18.93	48
IC-VGW-2	3/18/2015 10:16	42	11.3	0	46.7	57	57	-0.2	-0.2	0.007	0.004	0	0	30.09	-0.49	53
IC-VGW-2	4/29/2015 8:41	48.1	11.9	0	40	57	57	-0.4	-0.4	1.578	1.606	1	1	30.03	-17.6	58
IC-VGW-2	6/16/2015 9:16	50.6	12.1	0	37.3	66	67	-0.4	-0.4	1.367	1.381	1	1	29.89	-17.64	59
IC-VGW-2	8/4/2015 9:01	44.9	11.9	0	43.2	70	71	-0.3	-0.2	1.656	1.564	1	1	29.75	-17.33	68
IC-VGW-2	9/15/2015 8:22	47.2	11.5	0	41.3	58	58	-0.2	-0.2	1.156	1.268	1	1	29.6	-18.26	63
IC-VGW-2	10/28/2015 9:16	40.7	10.8	0	48.5	51	51	-0.5	-0.5	1.209	1.199	1	1	29.71	-18.21	55
IC-VGW-2	12/10/2015 8:10	46.3	10.2	0	43.5	44	44	0.6	0.5	1.059	1.052	0	0	28.83	-16.98	49
IC-VGW-3	2/3/2015 9:37	45.9	17.9	0	36.2	45	45	-0.4	-0.3	2.448	2.447	1	1	29.84	-18.86	48
IC-VGW-3	3/18/2015 10:22	45	16.8	0	38.2	60	60	0	0	-0.004	-0.003			30.09	-0.31	53
IC-VGW-3	4/29/2015 8:46	47.4	17	0	35.6	58	58	-0.4	-0.3	2.54	2.39	1	1	30.03	-17.86	58
IC-VGW-3	6/16/2015 9:21	55.7	18.3	0	26	61	61	-0.4	-0.4	2.021	2.057	1	1	29.88	-17.79	59
IC-VGW-3	8/4/2015 9:06	39.2	17.1	0	43.7	64	65	-0.2	-0.2	2.053	2.095	1	1	29.75	-17.09	68
IC-VGW-3	9/15/2015 8:27	41	17	0	42	57	57	-0.2	-0.2	1.98	1.977	1	1	29.59	-18.31	63
IC-VGW-3	10/28/2015 9:22	38.6	17.2	0	44.2	51	51	-0.4	-0.4	1.819	1.927	1	1	29.71	-18.24	55
IC-VGW-3	12/10/2015 8:15	23.1	15.9	0	61	44	44	0.7	0.8	1.996	1.447	1	1	28.84	-17.14	49
IC-VGW-4	2/3/2015 9:51	39.7	9.8	0	50.5	45	45	-0.5	-0.5	2.053	2.063	1	1	29.86	-19.36	48
IC-VGW-4	3/18/2015 10:29	40.8	9.2	0	50	59	59	0	0	-0.007	-0.003			30.09	-0.14	53
IC-VGW-4	4/29/2015 8:55	40.8	8.6	0	50.6	58	58	-0.4	-0.4	2.239	2.235	1	1	30.04	-18.26	58
IC-VGW-4	6/16/2015 9:44	40.5	9.4	0	50.1	63	63	-0.4	-0.4	2.149	2.153	1	1	29.88	-17.82	59
IC-VGW-4	8/4/2015 9:11	38.1	9.5	0	52.4	65	65	-0.3	-0.2	2.363	2.39	1	1	29.76	-17.38	68
IC-VGW-4	9/15/2015 8:33	35.7	9.1	0	55.2	58	59	-0.3	-0.3	2.324	2.319	1	1	29.6	-18.47	63
IC-VGW-4	10/28/2015 9:28	38.6	10	0	51.4	51	51	-0.5	-0.5	2.173	2.196	1	1	29.71	-18.7	55
IC-VGW-4	12/10/2015 8:22	33.6	8.8	0	57.6	45	45	0.8	0.8	1.944	1.958	1	1	28.84	-17.32	49
IC-VGW-5	2/3/2015 9:55	11.6	9.1	6.7	72.6	47	47	-0.3	-0.3	-0.034	-0.029			29.87	-0.05	48
IC-VGW-5	3/18/2015 10:32	0.9	16.1	0	83	59	59	-0.3	-0.3	1.115	1.114	0	0	30.09	-21	53
IC-VGW-5	4/29/2015 9:00	1	16.6	0	82.4	58	58	-0.5	-0.5	0.762	0.759	0	0	30.03	-19.16	58
IC-VGW-5	6/16/2015 9:48	0.1	0.7	20.7	78.5	57	57	-0.3	-0.3	-0.017	-0.015			29.89	0.06	59
IC-VGW-5	8/4/2015 9:15	0.1	0.5	20.2	79.2	62	62	0	0	-0.011	-0.011			29.77	0.03	68
IC-VGW-5	9/15/2015 10:09	0.6	16	0	83.4	64	64	-0.3	-0.3	0.478	0.48	0	0	29.62	-19.5	63
IC-VGW-5	10/28/2015 9:32	0.7	16.3	0	83	51	51	-0.4	-0.4	0.179	0.179	0	0	29.72	-12.25	55
IC-VGW-5	12/10/2015 8:25	0.2	16.8	0	83	44	44	1.3	1.3	0.161	0.155	0	0	28.84	-11.74	49
IC-VGW-6	2/3/2015 9:58	23.8	14	0	62.2	45	45	-0.5	-0.5	1.314	1.326	1	1	29.88	-19.43	48
IC-VGW-6	3/18/2015 10:35	22.4	13.3	0	64.3	60	60	-0.1	0	-0.014	-0.013			30.09	-0.14	53
IC-VGW-6	4/29/2015 9:05	23	13.5	0	63.5	59	60	-0.4	-0.4	1.257	1.253	1	1	30.04	-17.66	58
IC-VGW-6	6/16/2015 9:50	25.5	12.4	0	62.1	62	62	-0.3	-0.3	1.137	1.153	0	0	29.9	-17.78	59
IC-VGW-6	8/4/2015 9:17	21.3	13.7	0	65	67	67	-0.2	-0.2	1.041	1.048	0	0	29.77	-17.28	68
IC-VGW-6	9/15/2015 8:39	19.1	14.5	0	66.4	58	58	-0.3	-0.3	1.134	1.123	0	0	29.61	-18.44	63
IC-VGW-6	10/28/2015 9:35	18.9	14.5	0	66.6	51	51	-0.4	-0.4	1.014	1.036	0	0	29.73	-18.56	55
IC-VGW-6	12/10/2015 8:29	13.4	16.6	0	70	44	44	0.6	0.6	0.95	0.951	0	0	28.85	-17.64	49
IC-VGW-7	2/3/2015 10:01	0	1	19.9	79.1	47	47	-0.3	-0.3	-0.024	-0.02			29.88	0.04	48
IC-VGW-7	3/18/2015 10:39	0.5	17.8	1.3	80.4	61	61	-0.2	-0.2	2.532	2.532	1	1	30.1	-21.05	53
IC-VGW-7	4/29/2015 9:08	0.7	18.1	1.1	80.1	60	60	-0.4	-0.4	2.256	2.258	1	1	30.05	-19.78	58
IC-VGW-7	6/16/2015 9:53	0	0.7	20.7	78.6	57	57	-0.1	0	-0.022	-0.014			29.9	0.07	59
IC-VGW-7	8/4/2015 9:21	0	0.4	20.2	79.4	64	64	0	0	-0.019	-0.013			29.78	0	68
IC-VGW-7	9/15/2015 10:11	0.2	17.8	0.4	81.6	63	64	-0.3	-0.3	2.172	2.198	1	1	29.63	-19.46	63
IC-VGW-7	10/28/2015 9:39	0.5	17.5	1	81	51	52	-0.4	-0.4	0.885	0.891	0	0	29.73	-12.3	55
IC-VGW-7	12/10/2015 8:32	0	16.2	2.5	81.3	45	45	0.5	0.5	0.772	0.784	0	0	28.87	-17.21	49
IC-VGW-8	2/3/2015 10:00	17.4	21	2.3	59.3	48	48	0	0	-0.04	-0.034			29.88	-19.49	48
IC-VGW-8	3/18/2015 10:37	17.9	20.5	1.8	59.8	61	61	0	0	-0.011	-0.018			30.09	-0.14	53
IC-VGW-8	4/29/2015 9:07	17.7	20.4	1.8	60.1	63	63	0	0	-0.053	-0.028			30.04	-17.66	58
IC-VGW-8	6/16/2015 9:52	18	19.9	1.7	60.4	60	60	0	0.1	-0.019	-0.016			29.9	-17.74	59
IC-VGW-8	8/4/2015 9:20	17.9	18.6	1.9	61.6	64	64	0	0	-0.023	-0.014			29.77	-17.23	68
IC-VGW-8	9/15/2015 8:41	17.8	18.1	2.4	61.7	53	54	0	0	0.004	0.005	0	0	29.61	-18.42	63
IC-VGW-8	10/28/2015 9:37	17.6	17.7	2.3	62.4	51	51	0	0	-0.001	-0.008			29.73	-18.64	55
IC-VGW-8	12/10/2015 8:31	17.8	17.5	2.6	62.1	48	48	0	0	-0.086	-0.085			28.86	-17.45	49
IC-VGW-9	2/3/2015 10:05	2.1	10.7	5.7	81.5	46	46	-0.3	-0.2	-0.033	-0.022			29.88	0.02	48
IC-VGW-9	3/18/2015 10:41	0	5.5	13.5	81	59	59	-0.2	-0.2	2.473	2.48	1	1	30.1	-21.16	53
IC-VGW-9	4/29/2015 9:11	0	5.5	12.9	81.6	59	59	-0.4	-0.3	2.034	2.026	1	1	30.05	-20.14	58
IC-VGW-9	6/16/2015 9:56	0	0.5	20.9	78.6	57	57	0	0	-0.022	-0.015			29.9	0.06	59

**Table 8. Landfill Gas Monitoring Data
2015 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 ("H2O)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-VGW-9	8/4/2015 9:24	0	0.2	20.4	79.4	66	67	0	0	-0.015	-0.008			29.78	0	68
IC-VGW-9	9/15/2015 10:12	0	5.5	12.8	81.7	63	63	-0.2	-0.2	0.986	0.979	0	0	29.63	-19.43	63
IC-VGW-9	10/28/2015 9:41	0	5.9	12.5	81.6	51	51	-0.3	-0.3	0.562	0.562	0	0	29.74	-12.29	55
IC-VGW-9	12/10/2015 8:36	0	5.1	13.9	81	44	44	0.4	0.3	0.473	0.469	0	0	28.88	-17.19	49

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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	

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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
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	

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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
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	

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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
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	

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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
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	

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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
10/11/2011	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	

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2015 Annual Monitoring Report
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
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	
4/1/2014	65,718	85,630	22,516	168,420	

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2015 Annual Monitoring Report
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
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	
6/30/2015	68,450	91,076	24,519	183,402	
7/7/2015	68,513	91,162	24,519	183,402	

**Table 9. Source Control Operations Data
2015 Annual Monitoring Report
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
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	
Total Hours	26,872	44,096			
Avg hrs./day	7.44	12.20			

**Table 10. Soil Gas and Landfill Gas Removal Volumes
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly 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	Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft ³)	Accum. Volume (ft ³)
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				
Total Hours				26,872								Total Hours	44,096				
Avg hrs./week day				7.44								Avg hrs./week day	12.20				
Total Days Operational				3,613													

Table 11. LFG and SVE System Flow Rates
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

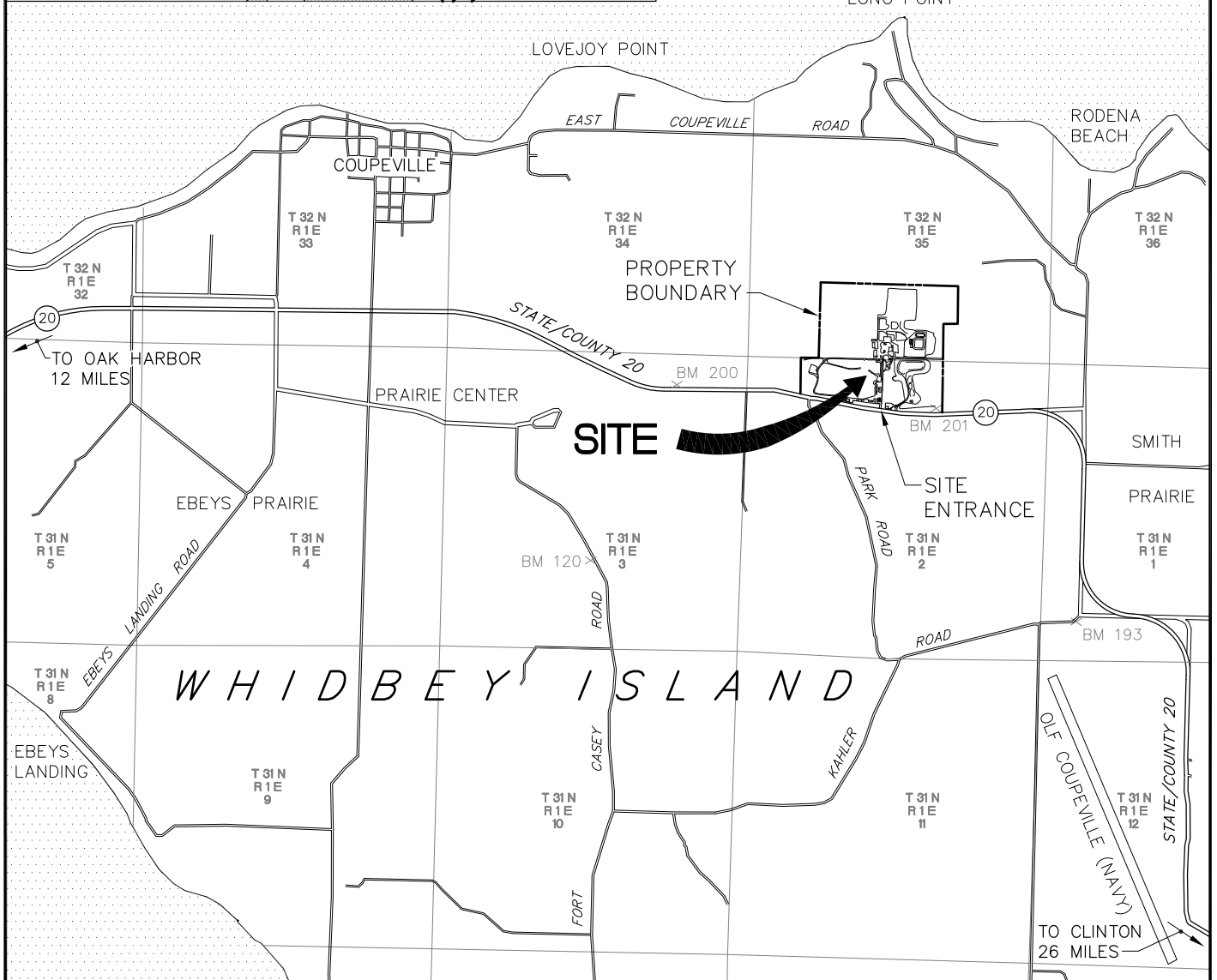
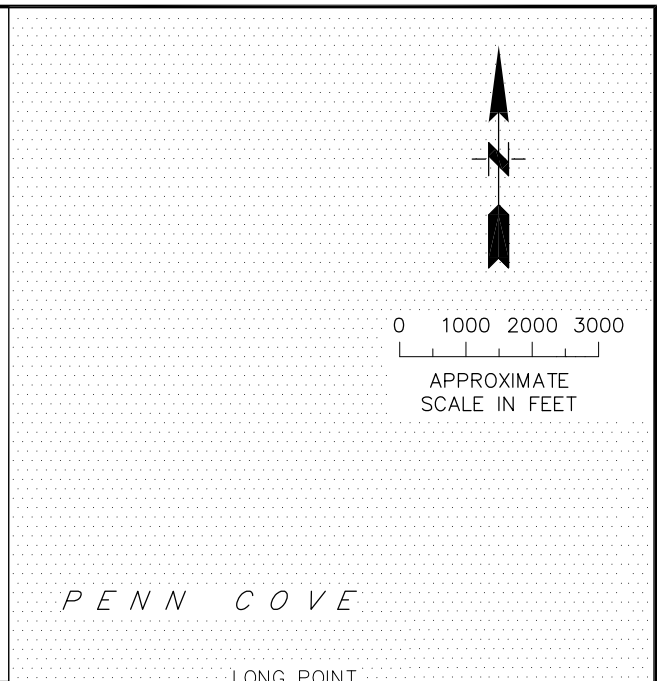
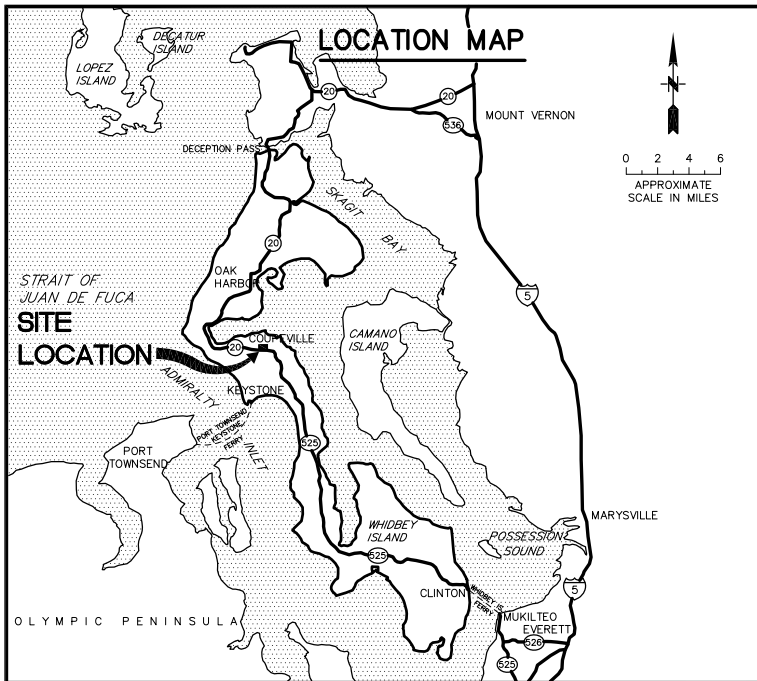
Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH ₄ (scfm)
1/13/2006	4.4	19.6	0.2	94	29.3	21.0	0.1	120	70
3/1/2006	4.0	18.5	1.3	85	30.5	19.7	0.6	87	53
4/3/2006	3.2	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
2015 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

N/M - Not measured

FIGURES

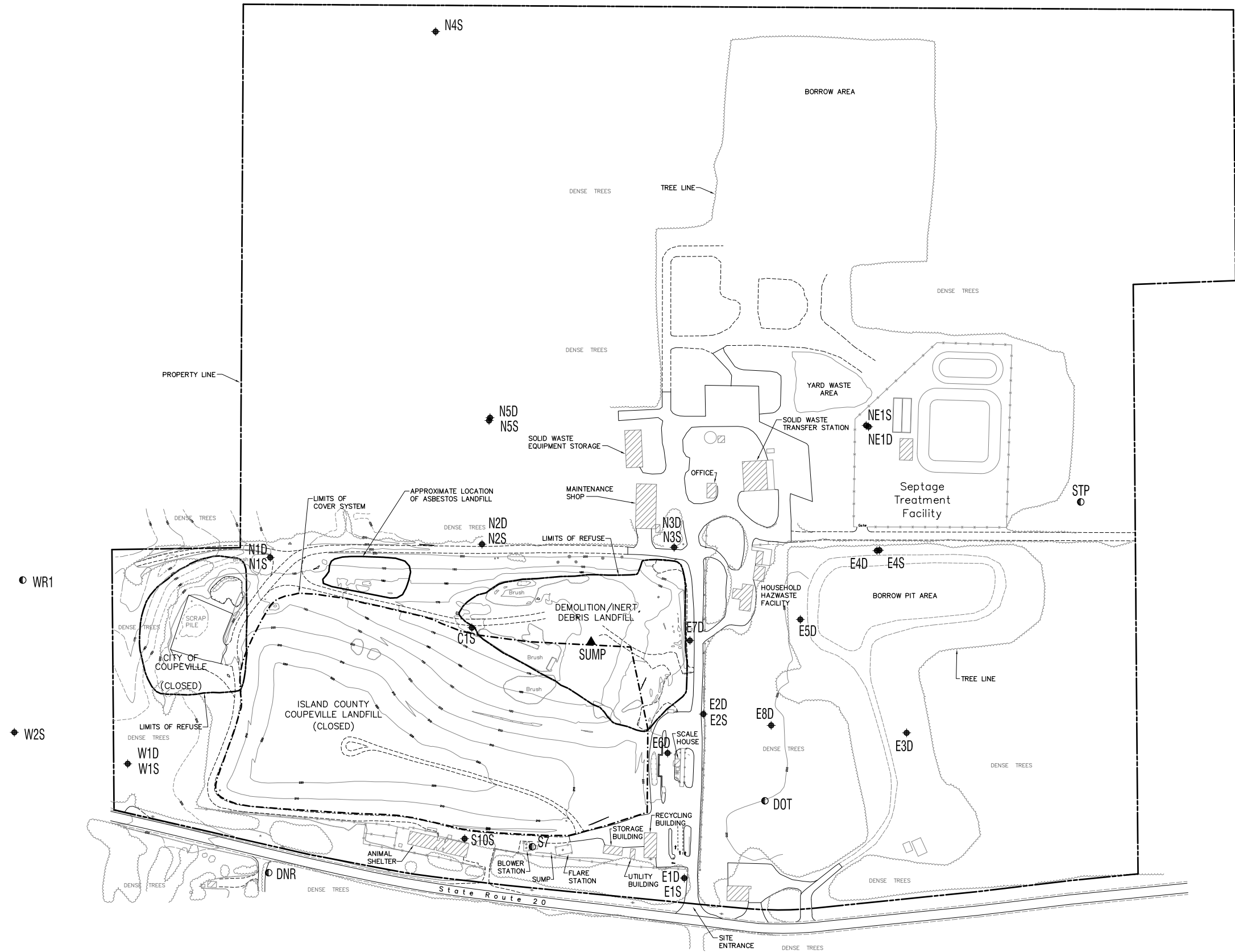


SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	PROJECT NO. 04207033.08	DES BY L.L.	SITE LOCATION MAP ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON	DATE JANUARY 2016
	SCALE AS SHOWN	CHK BY E.S.		FIGURE 1
	CAD FILE FIGURE 1	APP BY D.V.		

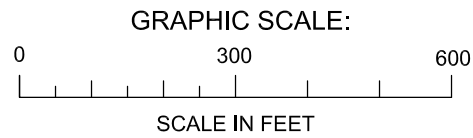
NOTES:
 THE SITE TOPOGRAPHIC BASE MAP WAS CREATED BY AERIAL PHOTOGRAMMETRY. BASE MAP PREPARED BY OTHERS. DATE OF PHOTOGRAPH 12-OCT-02.

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

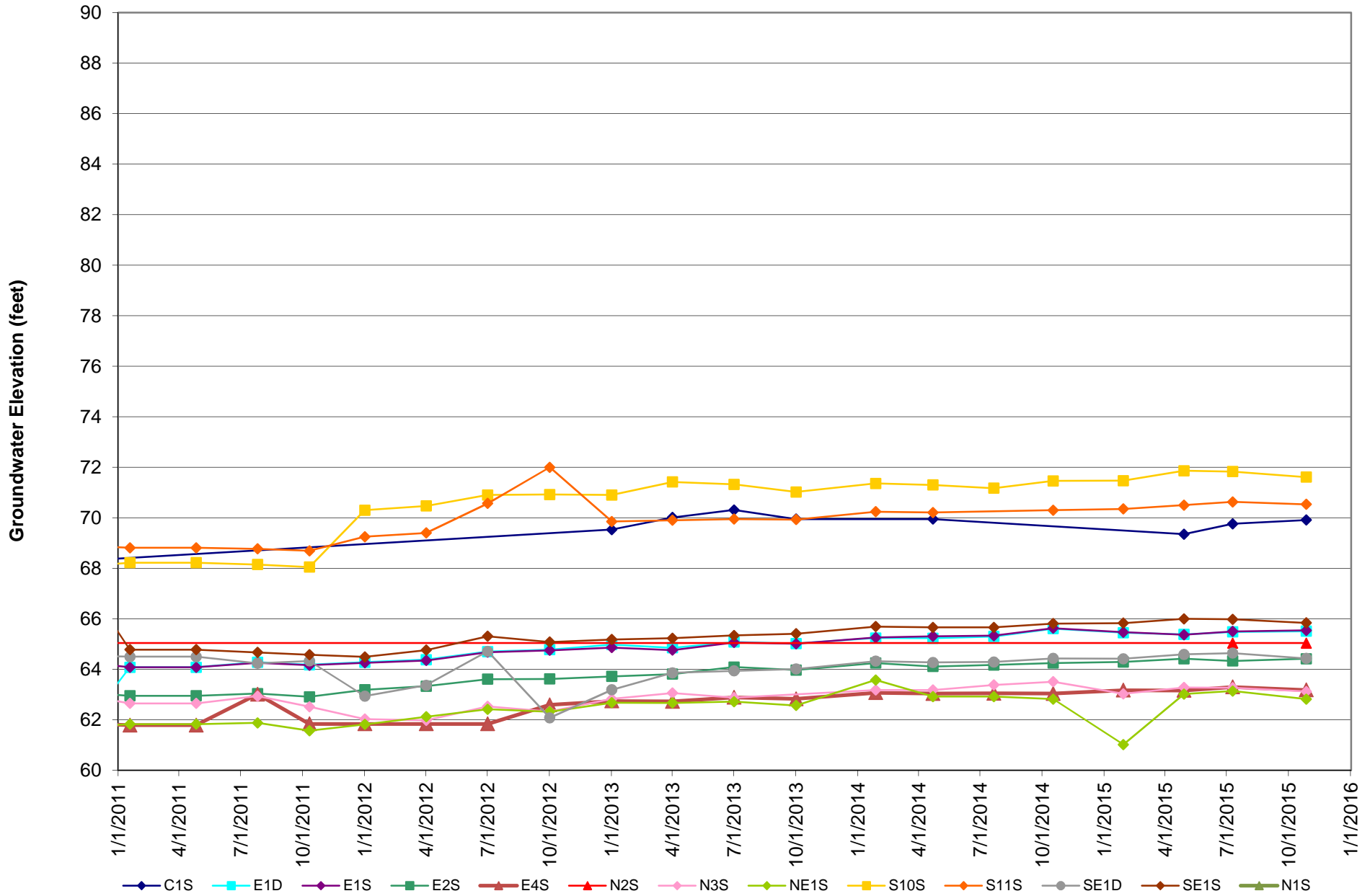


OFFSITE WELL PAIR S11S/D IS LOCATED APPROXIMATELY 650 FT SOUTH OF ROUTE 20

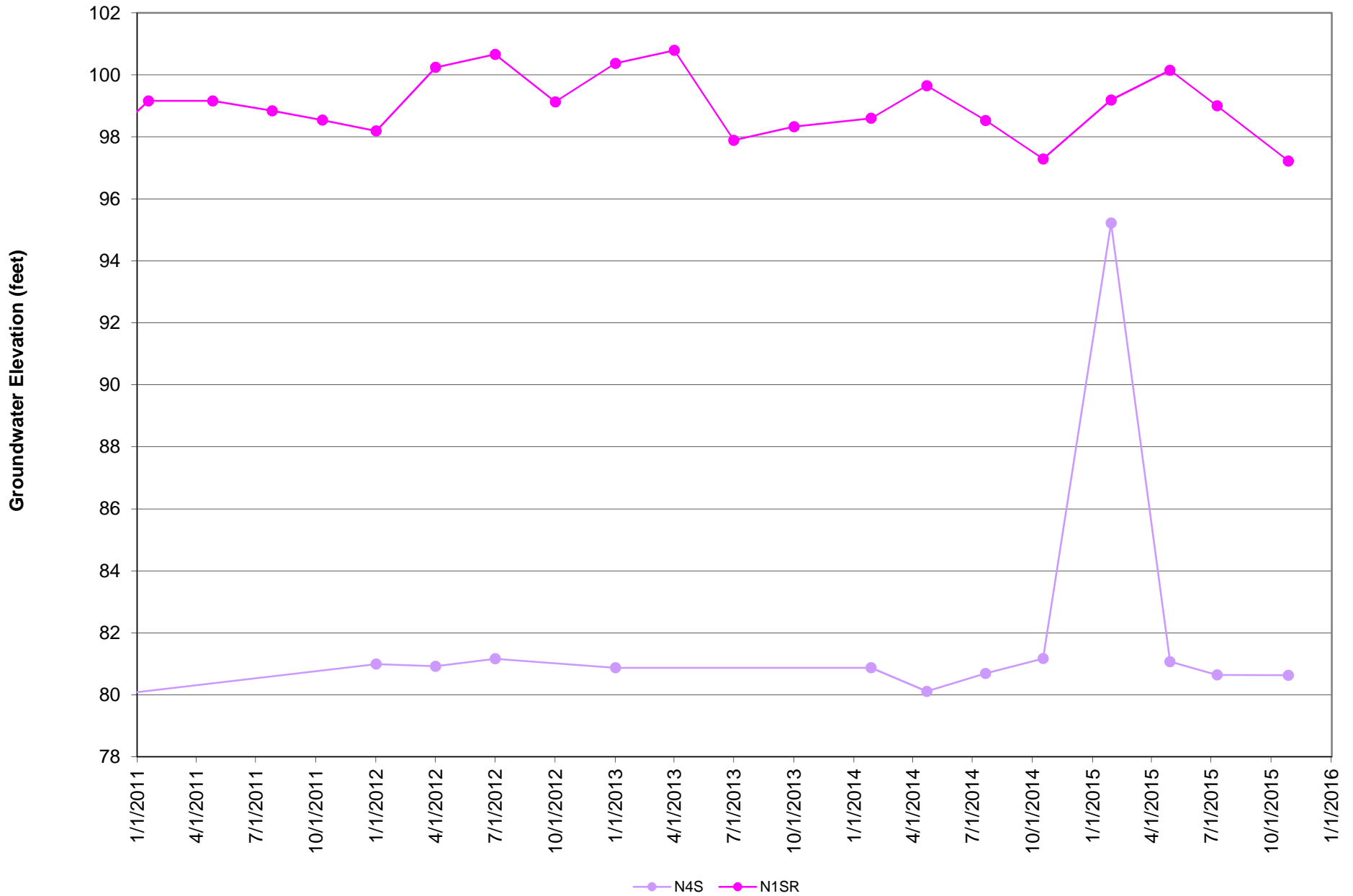
OFFSITE WELL PAIR SES/D IS LOCATED APPROXIMATELY 500 FT SOUTH OF ROUTE 20

SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON	PROJECT NO. 04207033.08	DES BY L.L.	GROUNDWATER MONITORING WELL NETWORK	DATE JANUARY 2016
		SCALE AS SHOWN	CHK BY E.S.		FIGURE 2
		CAD FILE Figure 2	APP BY D.V.		

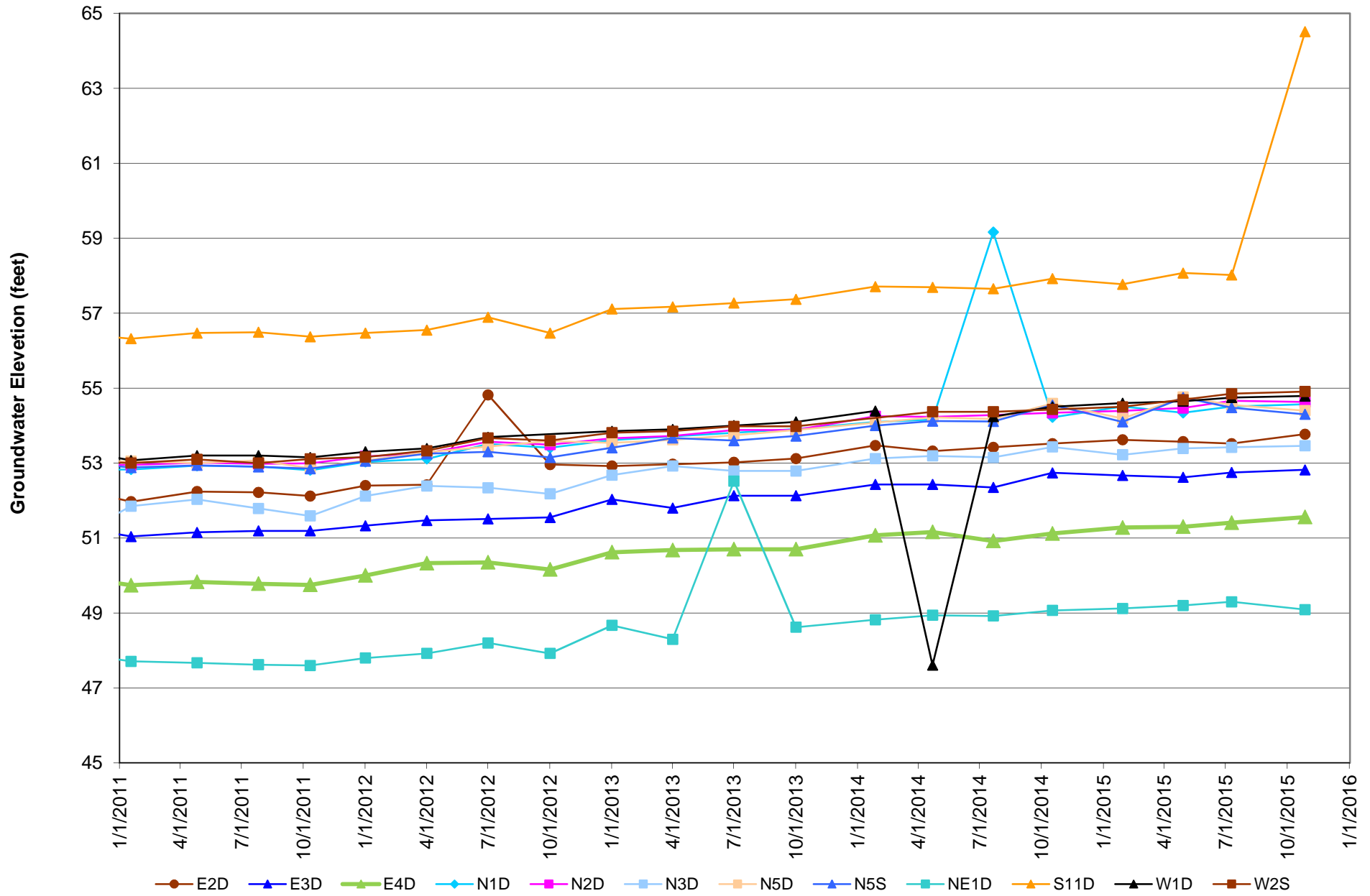
**Figure 3. Groundwater Elevation Time Series - Aquifer 1
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**



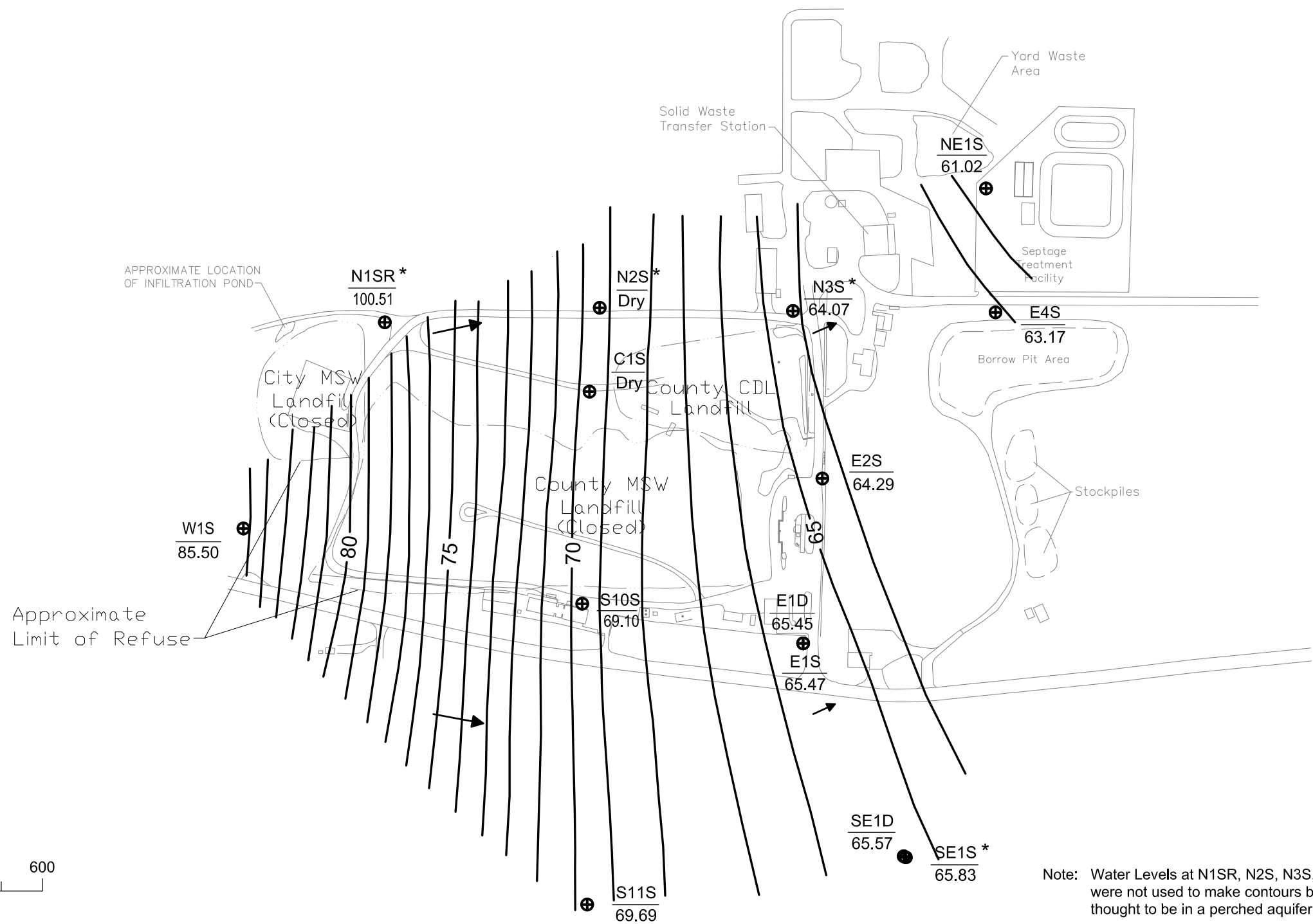
**Figure 4. Groundwater Elevation Time Series - Perched Groundwater Zone
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**



**Figure 5. Groundwater Elevation Time Series - Aquifer 2
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**



N4S* ⊕
92.96



APPROXIMATE LOCATION OF INFILTRATION POND

City MSW Landfill (Closed)

County CDL Landfill

County MSW Landfill (Closed)

Solid Waste Transfer Station

Yard Waste Area

Septage Treatment Facility

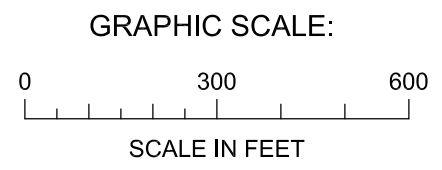
Borrow Pit Area

Stockpiles

Approximate Limit of Refuse

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.

LEGEND	
$\frac{E2S}{64.29}$	Well Name Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring



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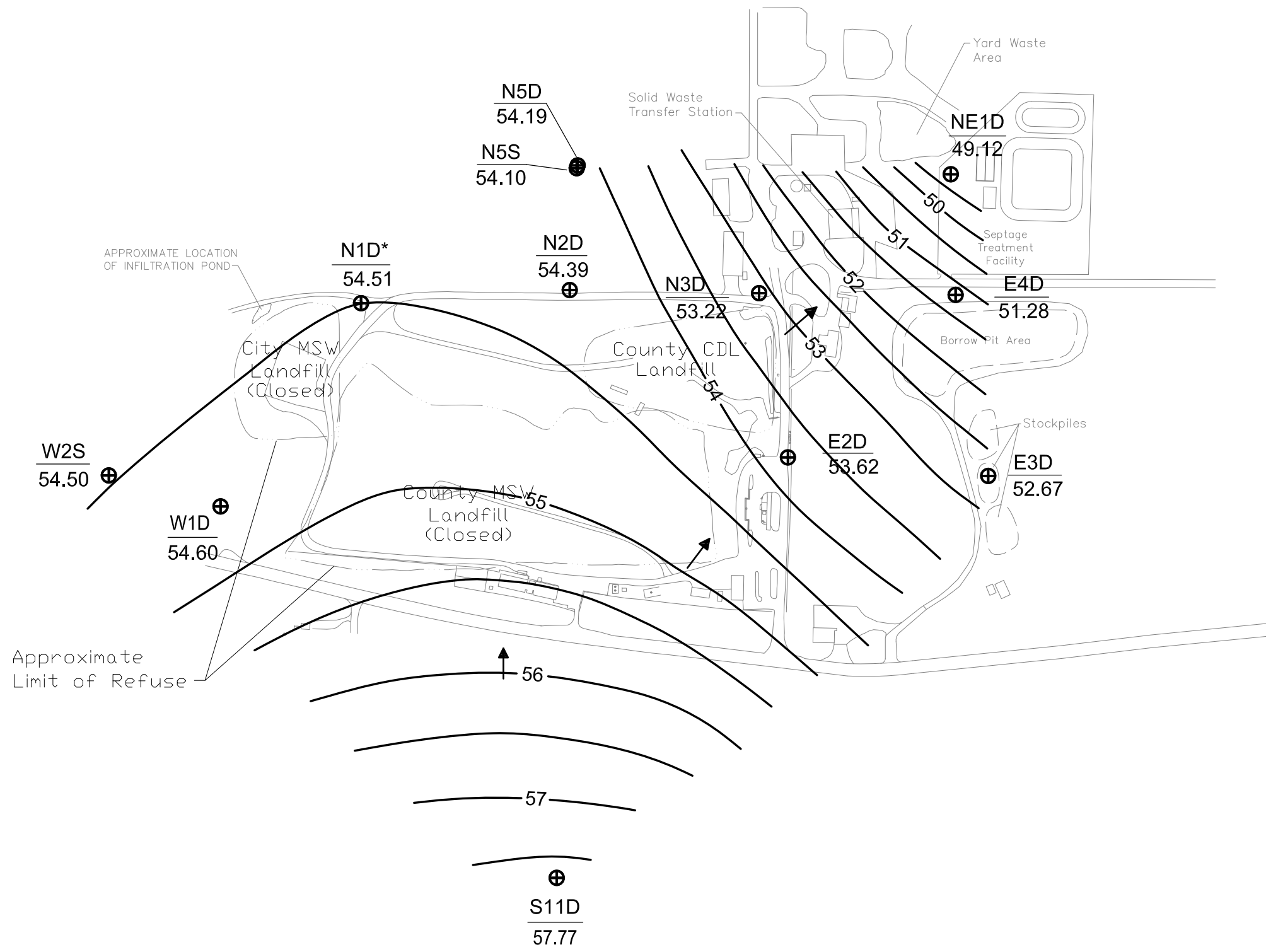
ANNUAL ENVIRONMENTAL MONITORING DATA REPORT
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.08
SCALE 1" = 300'
CAD FILE Figure 6A

DES BY S.G.
CHK BY E.S.
APP BY D.V.

JANUARY 2015
AQUIFER 1 GROUNDWATER ELEVATION MAP

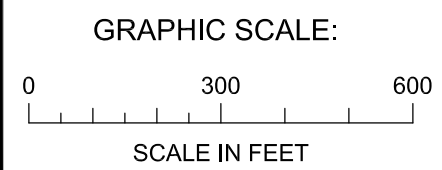
DATE JANUARY 2016
FIGURE 6A



APPROXIMATE LOCATION OF INFILTRATION POND

Approximate Limit of Refuse

LEGEND	
$\frac{E3D}{52.67}$	Well Name Groundwater Elevation
\oplus	Groundwater Monitoring Well
\leftarrow	Groundwater Flow Direction
*	Not used in contouring



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

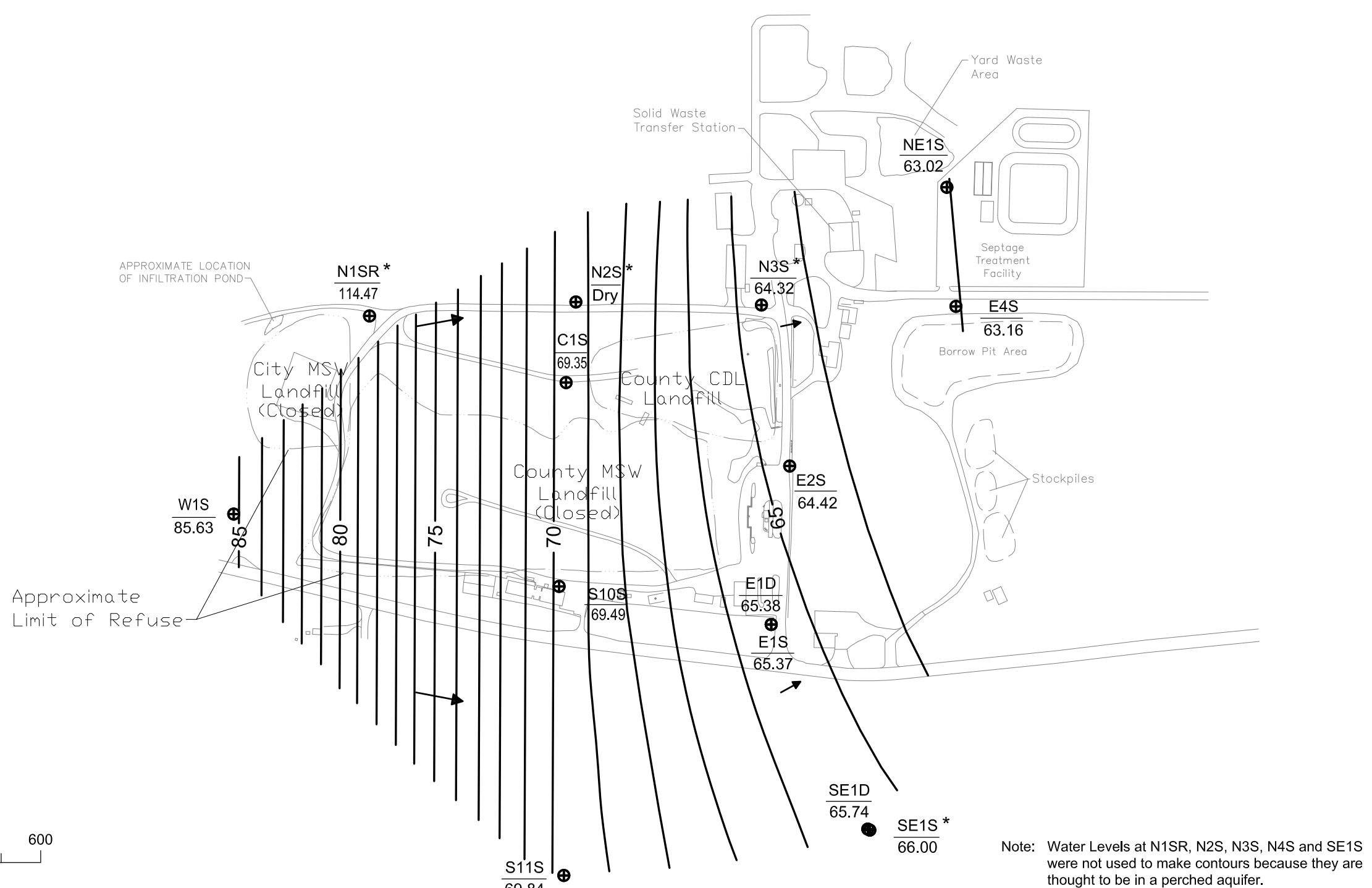
PROJECT NO. 04207033.08
 SCALE 1" = 300'
 CAD FILE Figure 6B

DES BY S.G.
 CHK BY E.S.
 APP BY D.V.

JANUARY 2015
 AQUIFER 2 GROUNDWATER ELEVATION MAP

DATE JANUARY 2016
 FIGURE 6B

N4S* ⊕
78.81



APPROXIMATE LOCATION OF INFILTRATION POND

City MSW Landfill (Closed)

County CDL Landfill

County MSW Landfill (Closed)

Solid Waste Transfer Station

Yard Waste Area

Septage Treatment Facility

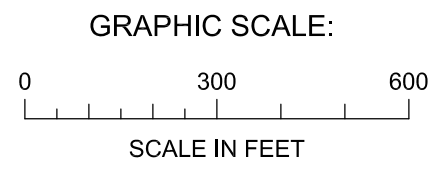
Borrow Pit Area

Stockpiles

Approximate Limit of Refuse

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.

LEGEND	
$\frac{E2S}{64.42}$	Well Name Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring



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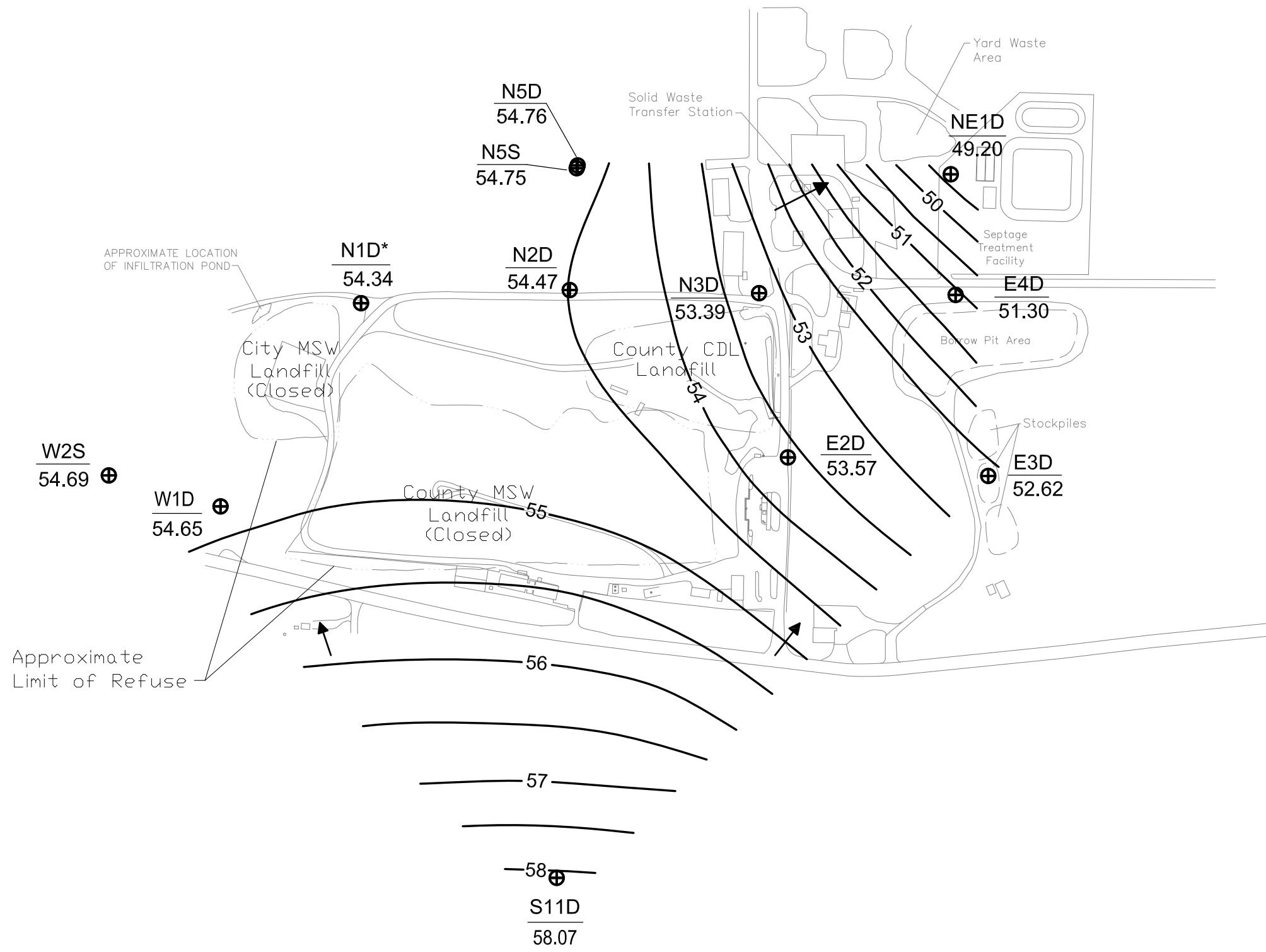
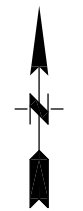
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COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.08
SCALE 1" = 300'
CAD FILE Figure 7A

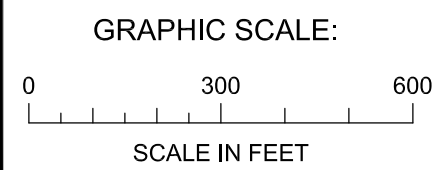
DES BY S.G.
CHK BY E.S.
APP BY D.V.

APRIL 2015
AQUIFER 1 GROUNDWATER ELEVATION MAP

DATE JANUARY 2016
FIGURE 7A



LEGEND	
$\frac{E3D}{52.62}$	Well Name Groundwater Elevation
\oplus	Groundwater Monitoring Well
\leftarrow	Groundwater Flow Direction
*	Not used in contouring



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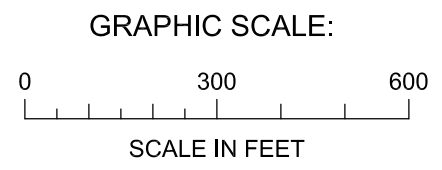
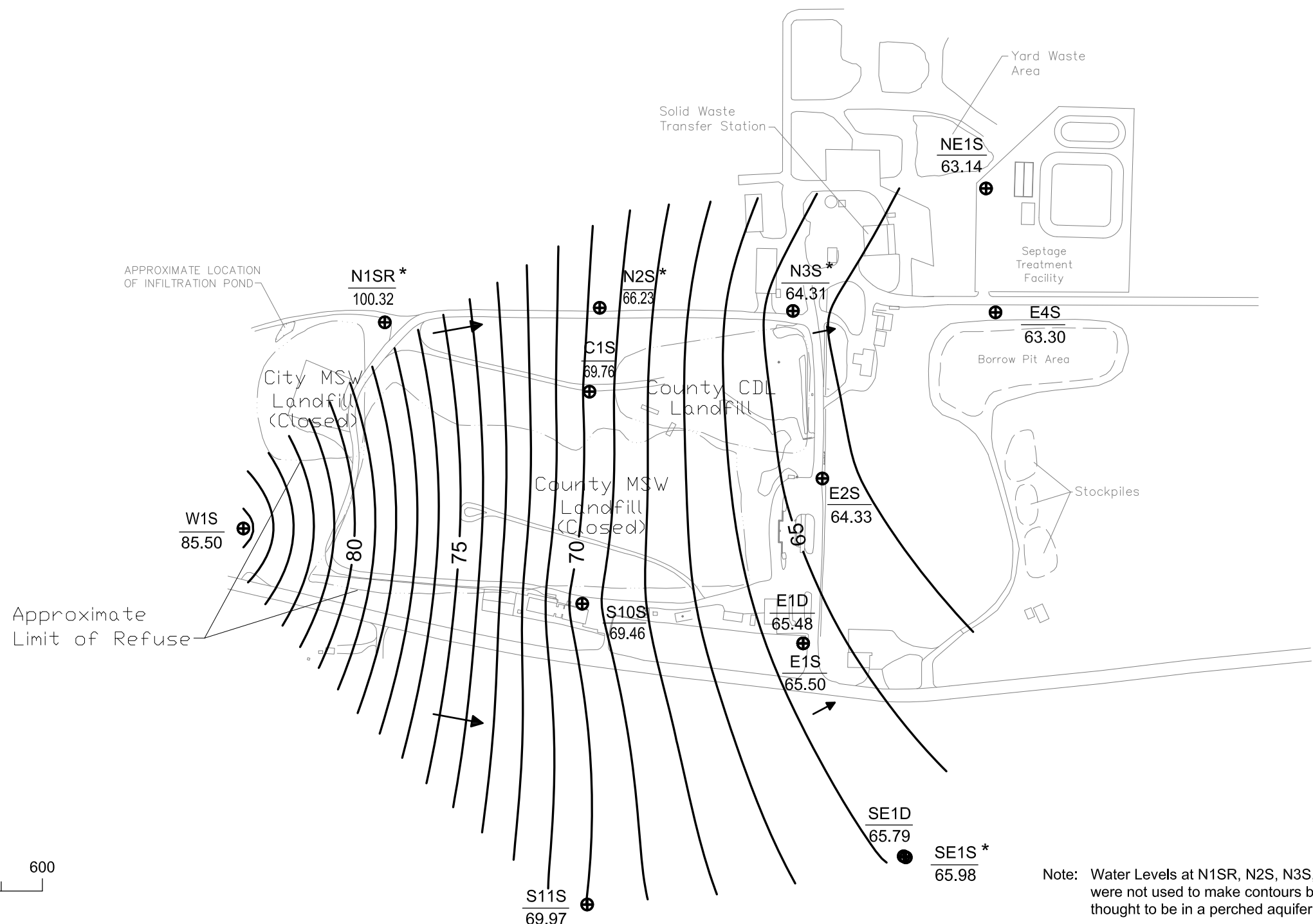
PROJECT NO. 04207033.08
 SCALE 1" = 300'
 CAD FILE Figure 7B

DES BY S.G.
 CHK BY E.S.
 APP BY D.V.

APRIL 2015
 AQUIFER 2 GROUNDWATER ELEVATION MAP

DATE JANUARY 2016
 FIGURE 7B

N4S* ⊕
78.38



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.

LEGEND	
$\frac{E2S}{64.33}$	Well Name Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

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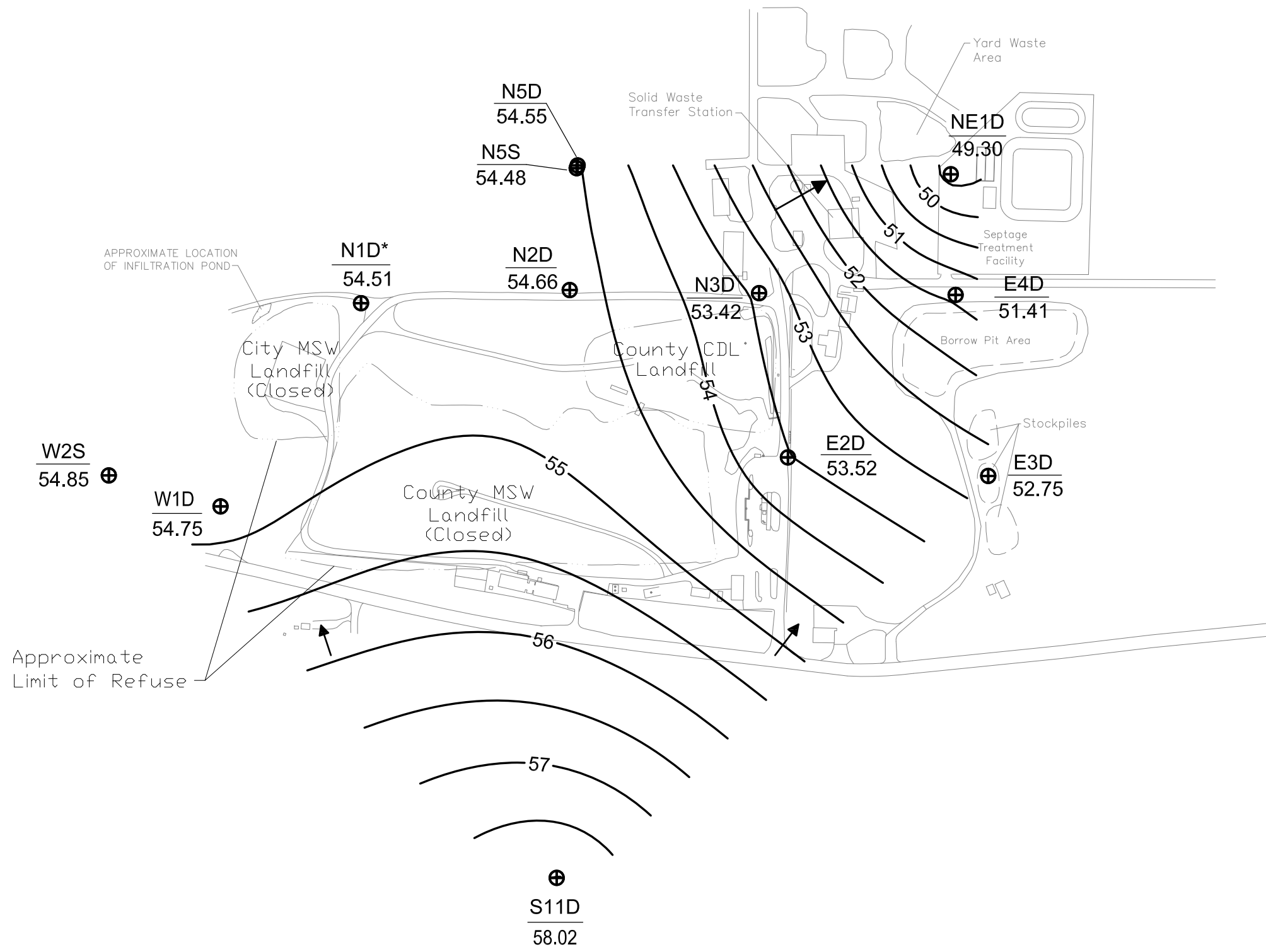
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PROJECT NO. 04207033.08
SCALE 1" = 300'
CAD FILE Figure 8A

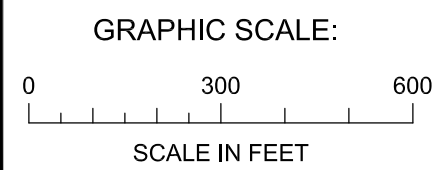
DES BY S.G.
CHK BY E.S.
APP BY D.V.

JULY 2015
AQUIFER 1 GROUNDWATER ELEVATION MAP

DATE JANUARY 2016
FIGURE 8A



LEGEND	
$\frac{E3D}{52.75}$	Well Name Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring



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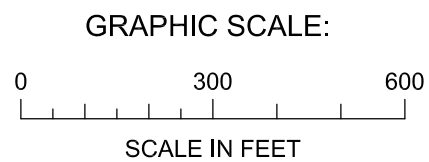
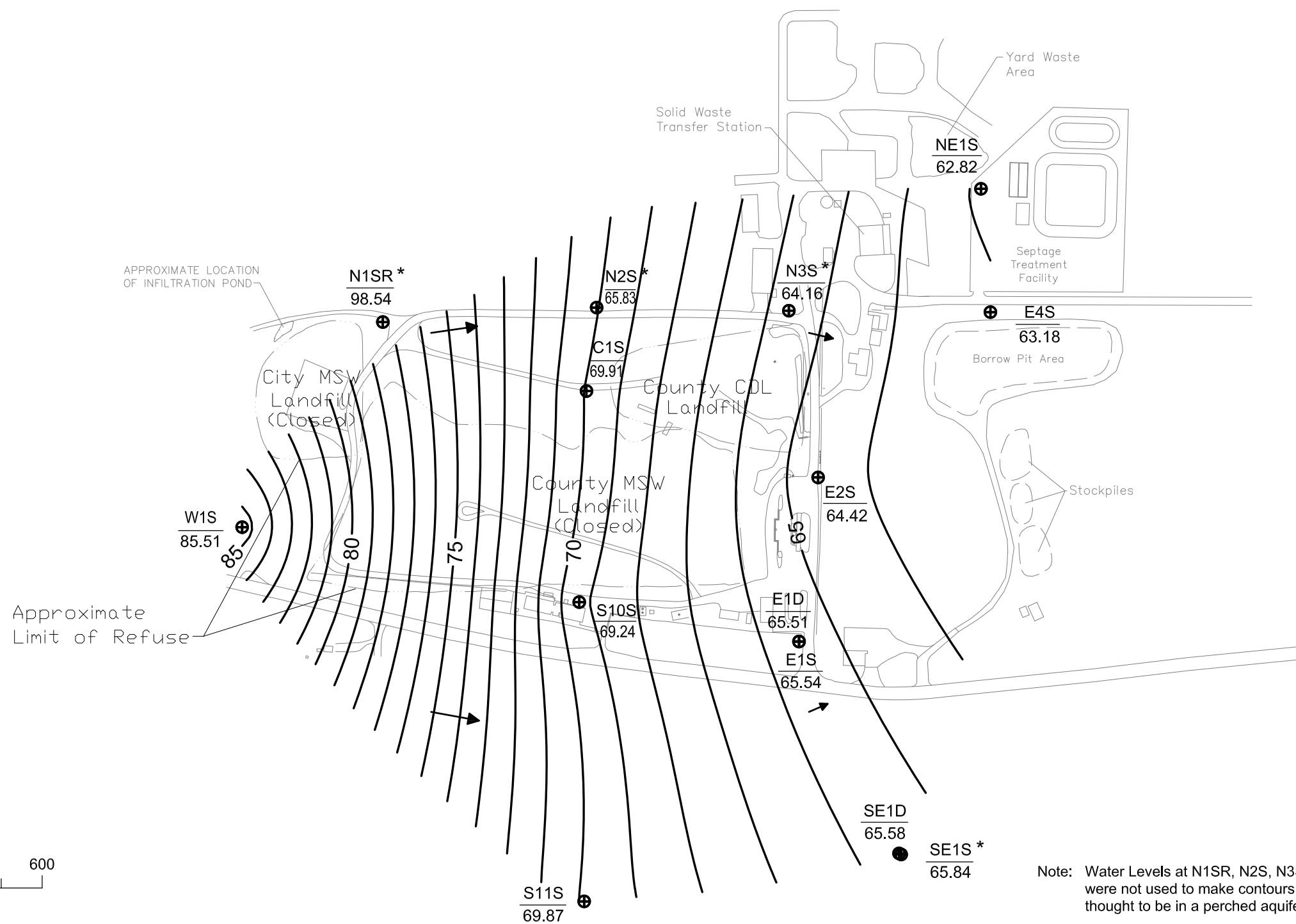
PROJECT NO. 04207033.08
 SCALE 1" = 300'
 CAD FILE Figure 8B

DES BY S.G.
 CHK BY E.S.
 APP BY D.V.

JULY 2015
 AQUIFER 2 GROUNDWATER ELEVATION MAP

DATE JANUARY 2016
 FIGURE 8B

N4S* ⊕
78.37



LEGEND	
$\frac{E2S}{64.42}$	Well Name Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

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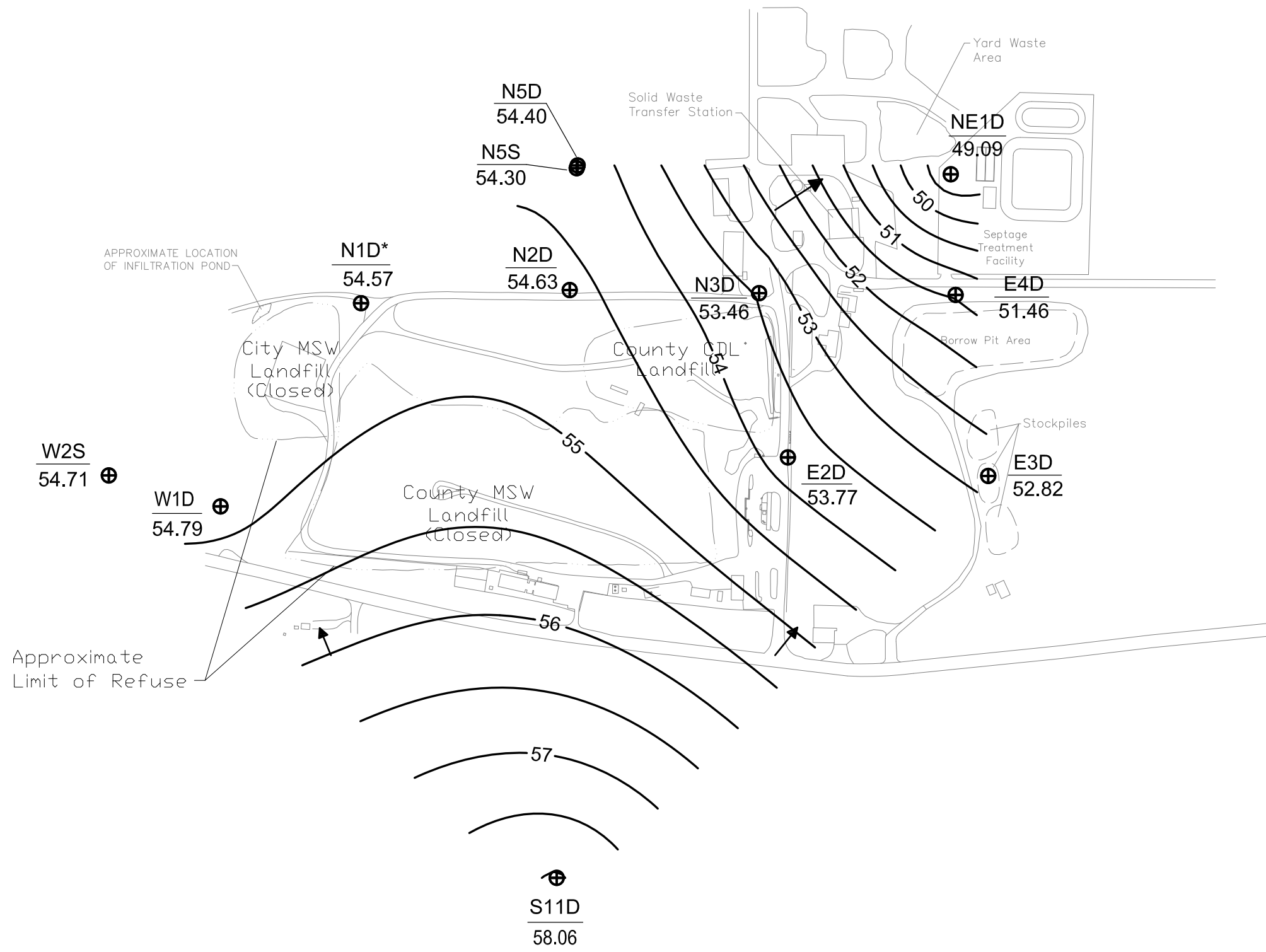
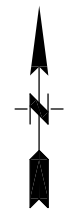
ANNUAL ENVIRONMENTAL
MONITORING DATA REPORT
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COUPEVILLE, WASHINGTON

PROJECT NO.	04207033.08	DES BY	S.G.
SCALE	1" = 300'	CHK BY	E.S.
CAD FILE	Figure 9A	APP BY	D.V.

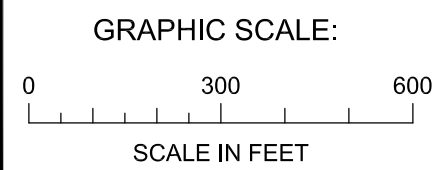
OCTOBER 2015
AQUIFER 1 GROUNDWATER ELEVATION MAP

DATE
JANUARY 2016

FIGURE
9A



LEGEND	
$\frac{E3D}{52.82}$	Well Name Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring



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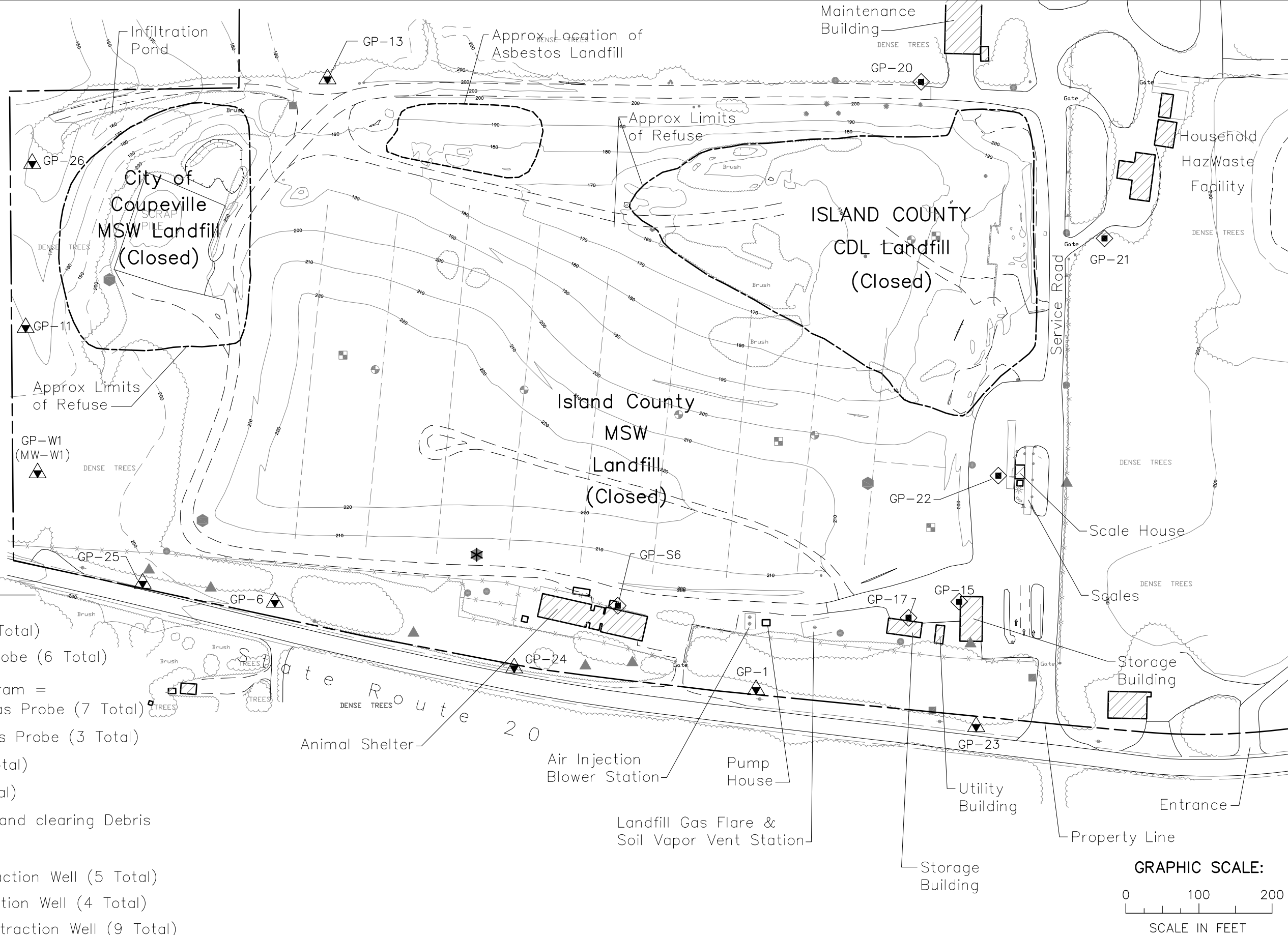
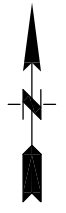
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PROJECT NO. 04207033.08
 SCALE 1" = 300'
 CAD FILE Figure 9B

DES BY S.G.
 CHK BY E.S.
 APP BY D.V.

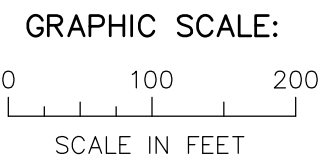
OCTOBER 2015
 AQUIFER 2 GROUNDWATER ELEVATION MAP

DATE JANUARY 2016
 FIGURE 9B

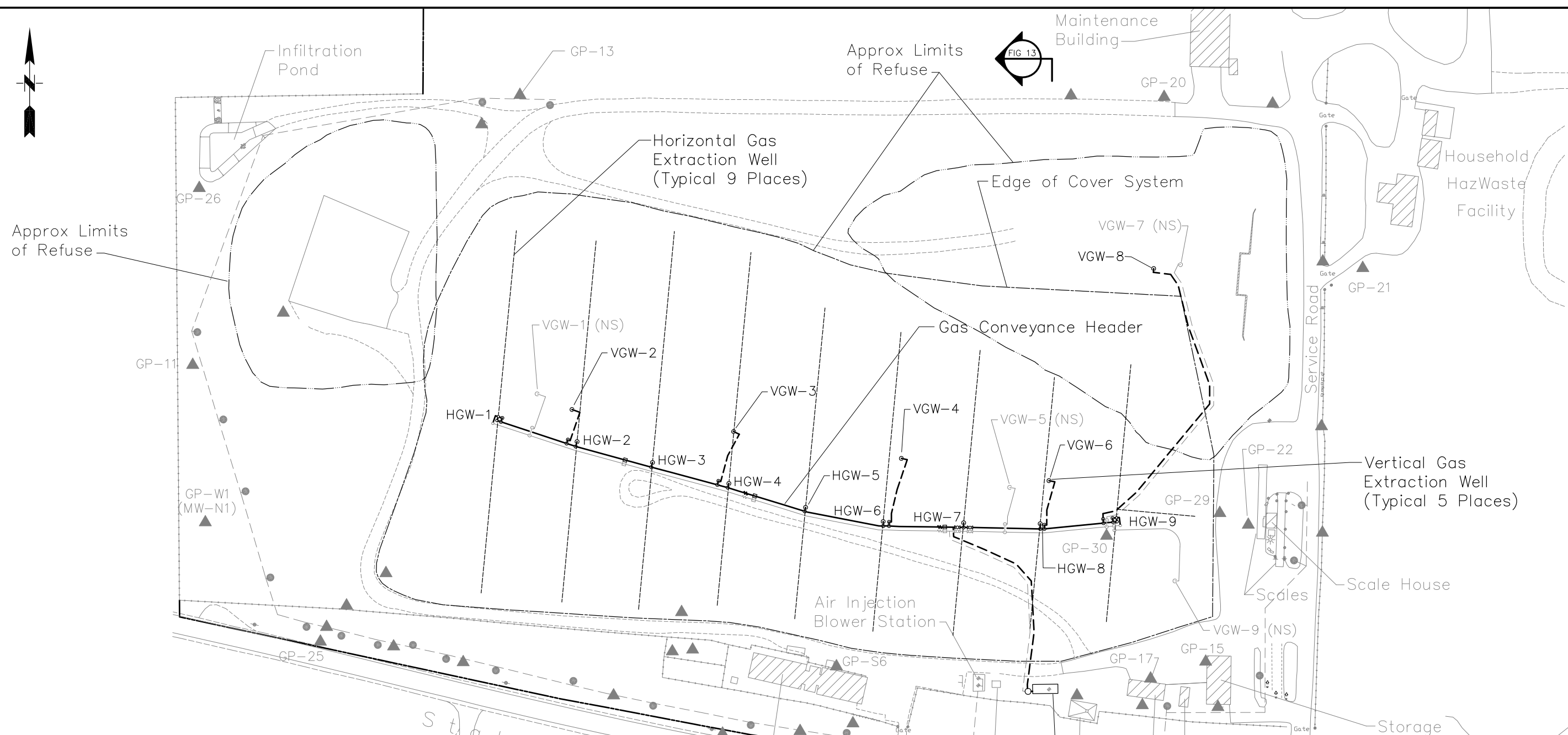
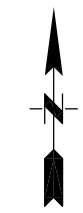


LEGEND

- 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)

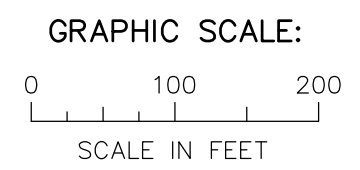


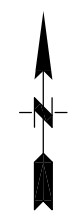
SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON	PROJECT NO. 04207033.08	DES BY T.M.	LANDFILL GAS PROBE MONITORING NETWORK	DATE JANUARY 2016
		SCALE AS SHOWN	CHK BY E.R.		FIGURE 10
		CAD FILE Figure 10	APP BY D.V.		



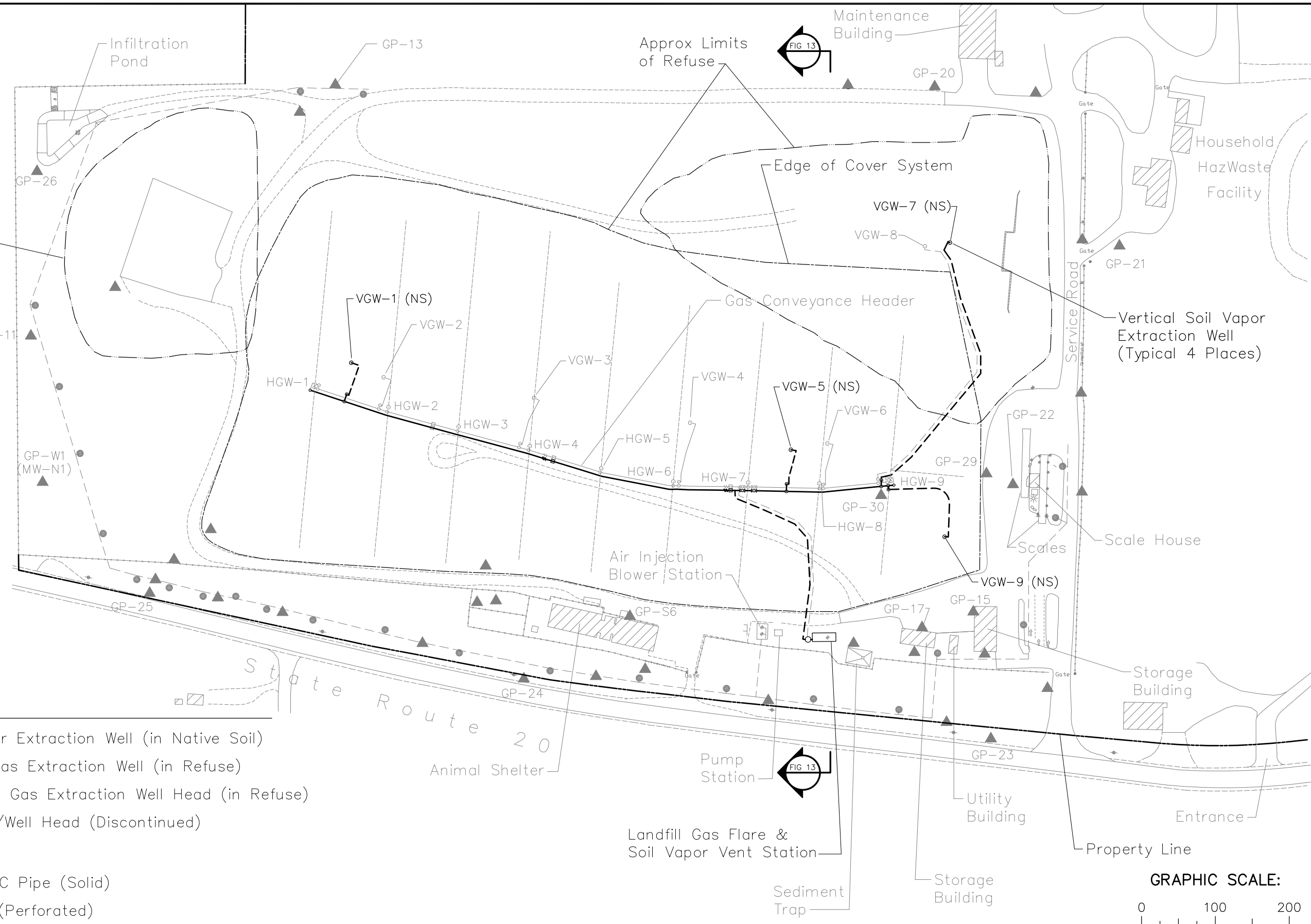
LEGEND

- 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)



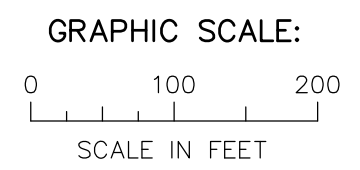


Approx Limits of Refuse



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)



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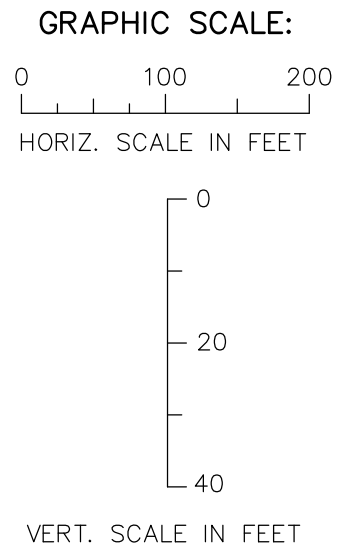
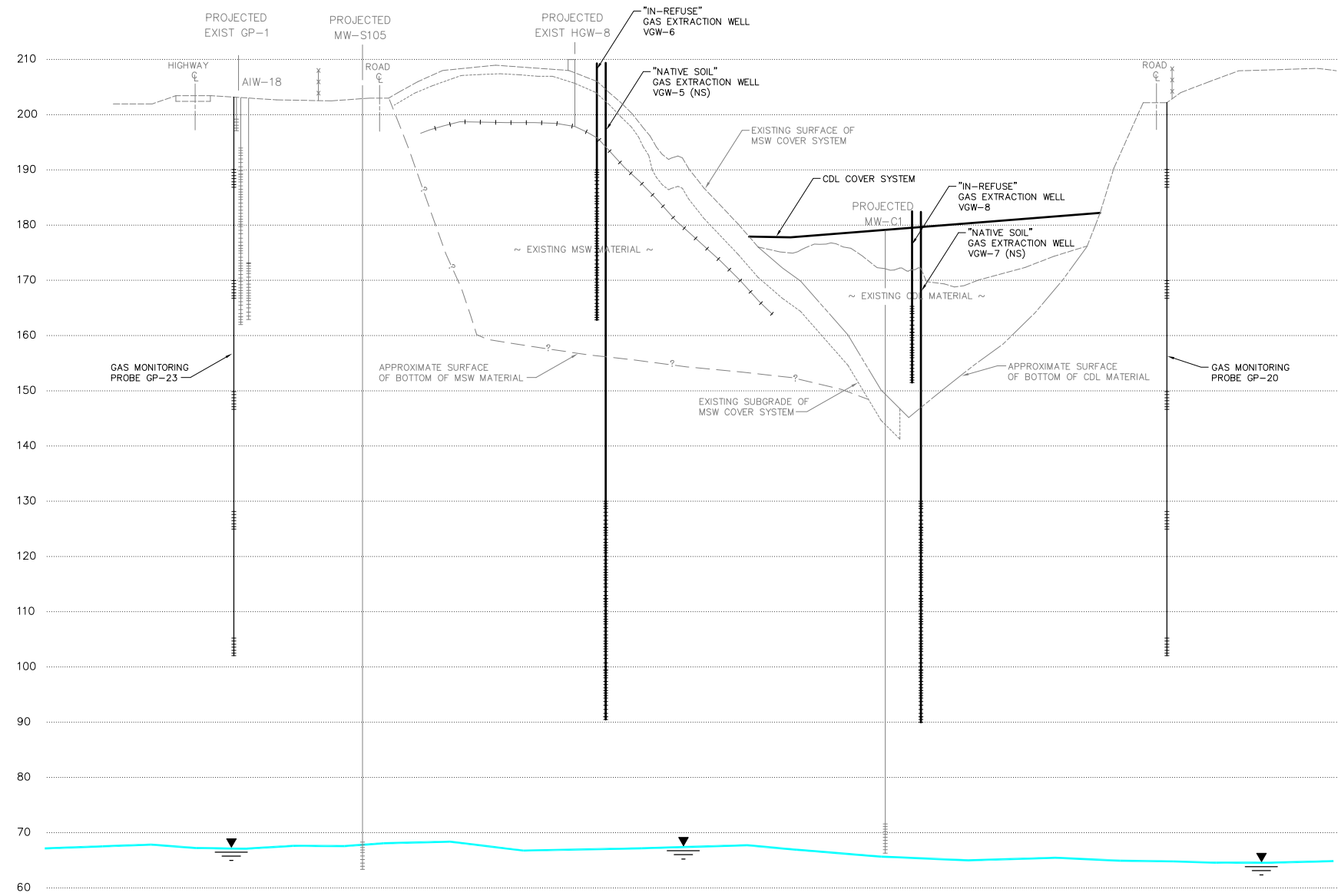
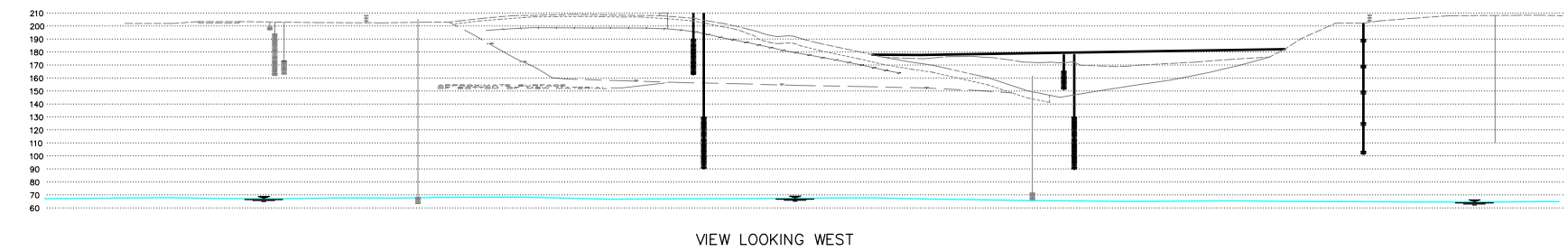
PROJECT NO.	04207033.08	DES BY	T.M.
SCALE	AS SHOWN	CHK BY	E.R.
CAD FILE	Figure 12	APP BY	D.V.

SOIL VAPOR EXTRACTION SYSTEM

DATE	JANUARY 2016
FIGURE	12

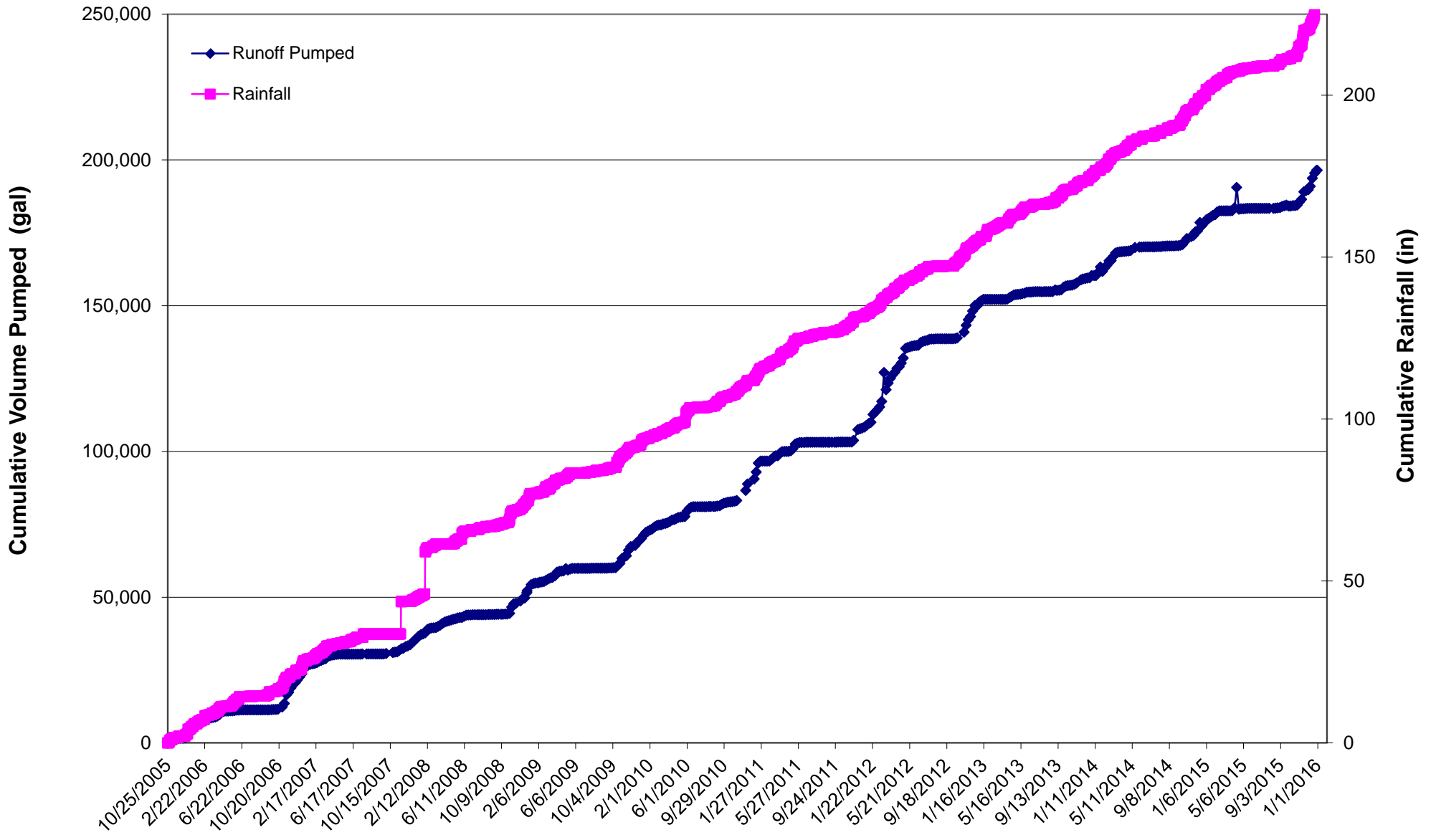
L E G E N D

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



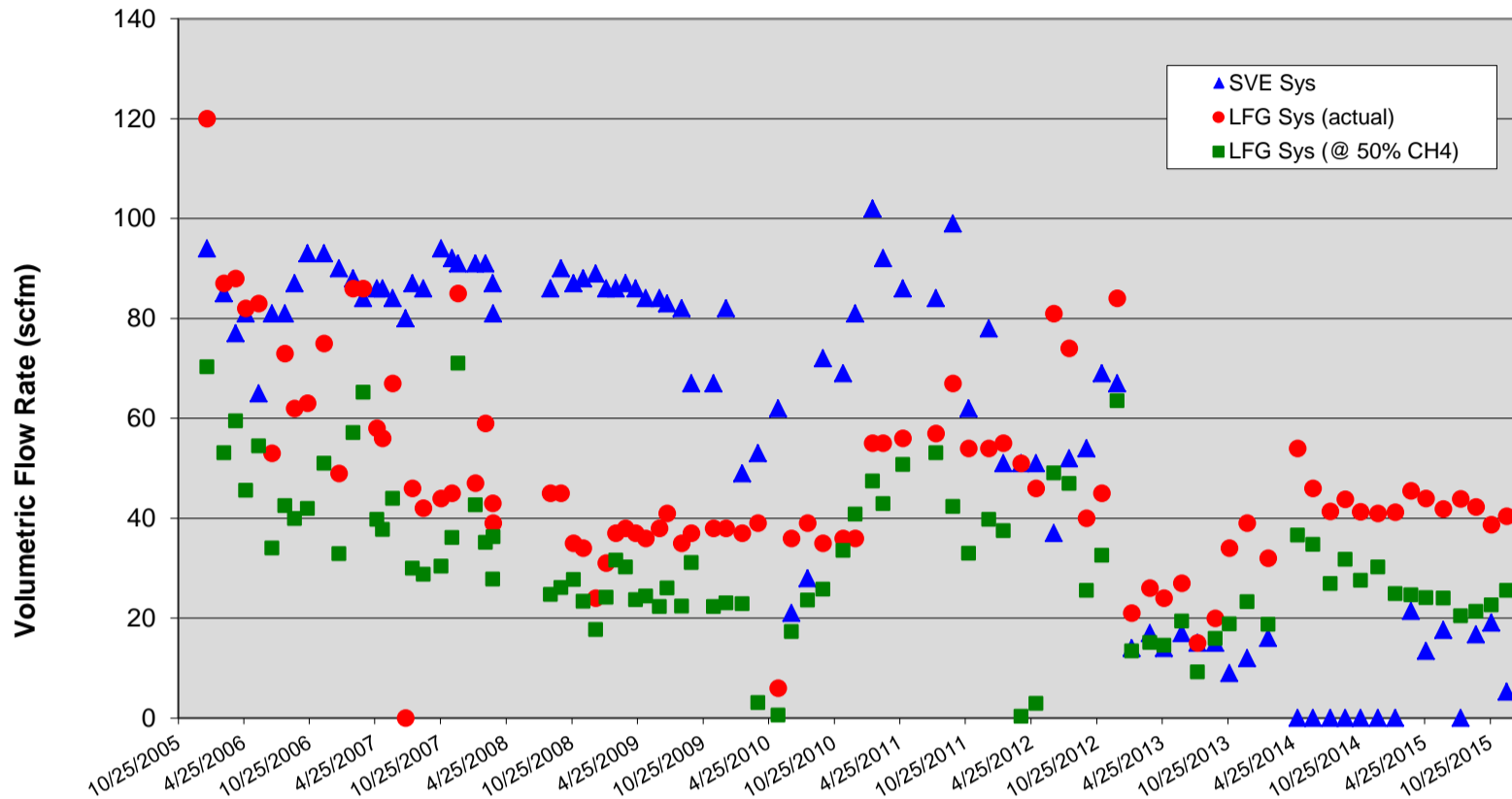
<p>SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747</p>	<p>ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON</p>		PROJECT NO. 04207033.08	DES BY M.O.	<p>CROSS SECTION THRU MSW AND CDL LANDFILLS SHOWING EXTRACTION SYSTEMS</p>	DATE JANUARY 2016
			SCALE AS SHOWN	CHK BY E.R.		FIGURE
			CAD FILE Figure 13	APP BY D.V.		13

**Figure 14. Water Removed from Stormwater Pump Station
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

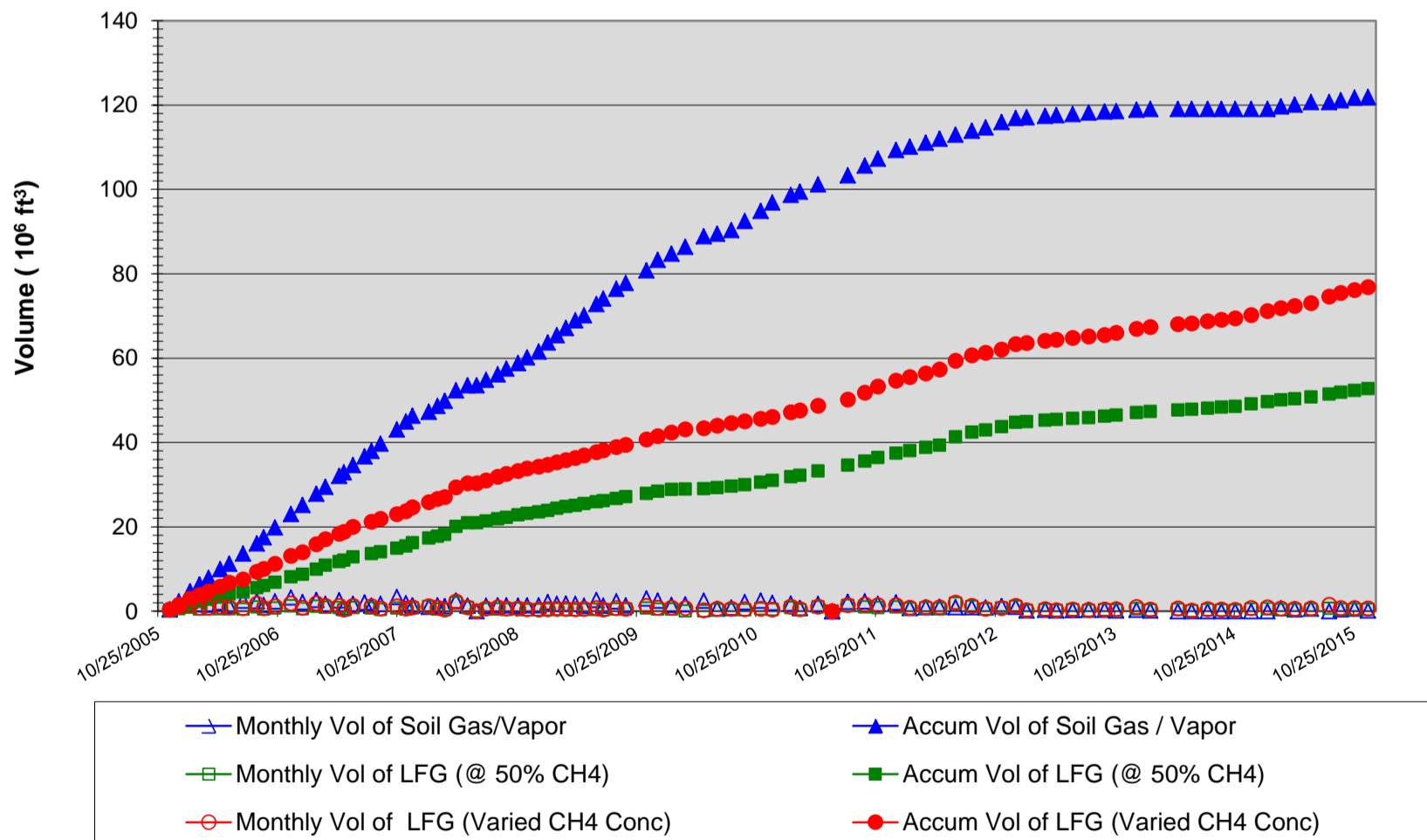


**Figure 15. Flow Rates and Removal Volumes for LFG and SVE Systems
2015 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington**

Flow from LFG & SVE Systems



Landfill Gas and Soil Gas/Vapor Removal Volumes



APPENDIX A
2015 FIELD DOCUMENTATION

SCS ENGINEERS

February 2, 2015
File No. 04207033.08

**Subject: First Quarter 2015 Groundwater Monitoring Event
Coupeville Solid Waste Facility, Island County, Washington**

Sampling Dates: January 26-30, 2015
Personell: Matthew O'Hare

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells E1S (0115-25) and E1D (0115-27).
- Monitoring wells N2S and C1S were dry.
- Water level elevations were measured at two monitoring wells, N4S and W1S, on January 26, 2015.
- Meters were calibrated daily prior to sampling.
- Well E2D had its pump pulled after sampling due to faulty check valve.
- Split samples were collected for VOC analysis at E2D, E2S, and E4D and sent to TestAmerica of Tacoma, Washington for comparison.

Date Sampled	Sample Number	Well Number
1/26/2015	0115-01	W1D
1/26/2015	0115-02	N1SR
1/26/2015	0115-03	N1D
1/26/2015	0115-04	SE1S
1/26/2015	0115-05	SE1D
1/27/2015	0115-06	N2D
1/27/2015	0115-07	S10S
1/27/2015	0115-08	E3D
1/27/2015	0115-09	NE1S
1/27/2015	0115-10	NE1D
1/27/2015	0115-11	S11S
1/27/2015	0115-12	S11D
1/28/2015	0115-13	N5D
1/28/2015	0115-14	N5S
1/28/2015	0115-15	N3S
1/28/2015	0115-16	N3D
1/29/2015	0115-17	E4D

Date Sampled	Sample Number	Well Number
1/29/2015	0115-18	E4S (MS/MSD)
1/29/2015	0115-19	E2S
1/29/2015	0115-20	E2D
1/29/2015	0115-21	STP
1/29/2015	0115-22	S7
1/29/2015	0115-23	DOT
1/29/2015	0115-24	E1S
1/29/2015	0115-25	Duplicate-1 (E1S)
1/29/2015	0115-26	E1D
1/29/2015	0115-27	Duplicate-2 (E1D)
1/30/2015	0115-28	W2S
1/30/2015	0115-29	WR1
1/30/2015	0115-30	E8D
1/30/2015	0115-31	E5D
1/30/2015	0115-32	E7D
1/30/2015	0115-33	E6D
1/30/2015	0115-34	DNR

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Groundwater Sampling Data Sheet

Project #: Island County
 Site: 04207035.08
 Well ID: W10
 Sample ID: 0115-01
 Date: 1/26/15
 Weather: Sunny - 50°

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

Meter: MP-20 YSI

CONTROL SETTINGS:
 Refill 13.5 1 ft water = 0.62L
 Discharge 6.5 One Well Volume (liters) Other: _____
 Pressure 80 Total Volume Bailed (liters) Flow Setting: _____
 Flow 350

DTW 140.20
 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 HNO3 x2 _____ 500 ml H2SO4 x2 _____ 250 ml Poly _____ 125 ml Poly _____
 125 ml NaOH _____

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

N45 = 123.97
 W15 = 109.65

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1040	Begn purge							350
1045	140.23	10.60	991	6.89	5.47	325	9	↓
1050	140.25	10.61	982	6.66	5.49	328	6	
1055	140.25	10.53	985	6.41	5.52	329	4	
1100	140.25	10.54	982	6.30	5.53	330	4	

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: NISR

Sample ID: 0115-02

Date: 1/26/15

Weather: Sunny

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			



92.65

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 7

Total Volume Bailed (liters)

Flow Setting: _____

Pressure 50

Flow 300

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1129	Begin Pump							
1134	92.65	11.03	425	5.61	5.66	335	13	300
1139	92.65	11.94	418	4.00	5.65	336	6	↓
1144	92.65	12.10	417	3.59	5.66	334	5	
1149	92.65	12.16	418	3.39	5.67	333	5	
1152	92.65	12.12	416	3.33	5.66	333	4	

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

SAMPLER: Matt O'Hara
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: NID

Sample ID: 0115-03

Date: 1/26/15

Weather: Sunny - 55°F



137.00

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

DTW

Meter: MP-20

CONTROL SETTINGS:

1 ft water = 0.62L

1L = 0.24 gallons

TOS

Refill 14

One Well Volume (liters)

Other: _____

Intake

YSI

Discharge 6

Total Volume Bailed (liters)

Flow

BOS

Pressure 80

Flow 400

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

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1215	<u>Begin Purge</u>							
1220	<u>137.00</u>	<u>11.46</u>	<u>1460</u>	<u>7.58</u>	<u>5.95</u>	<u>312</u>	<u>1</u>	<u>400</u>
1225	<u>137.00</u>	<u>10.70</u>	<u>1492</u>	<u>7.47</u>	<u>5.93</u>	<u>319</u>	<u>1</u>	<u>↓</u>
1230	<u>137.00</u>	<u>11.01</u>	<u>1500</u>	<u>7.10</u>	<u>5.94</u>	<u>328</u>	<u>2</u>	
1235	<u>137.00</u>	<u>11.22</u>	<u>1500</u>	<u>6.76</u>	<u>5.96</u>	<u>332</u>	<u>1</u>	
1240	<u>137.00</u>	<u>11.41</u>	<u>1500</u>	<u>5.53</u>	<u>5.96</u>	<u>333</u>	<u>0</u>	
1245	<u>137.00</u>	<u>11.31</u>	<u>1510</u>	<u>3.75</u>	<u>5.96</u>	<u>198</u>	<u>2</u>	
1250	<u>137.00</u>	<u>11.11</u>	<u>1510</u>	<u>2.88</u>	<u>5.96</u>	<u>170</u>	<u>1</u>	
1255	<u>137.00</u>	<u>11.06</u>	<u>1510</u>	<u>2.45</u>	<u>5.97</u>	<u>162</u>	<u>1</u>	
1300	<u>137.00</u>	<u>11.06</u>	<u>1510</u>	<u>2.38</u>	<u>5.97</u>	<u>161</u>	<u>1</u>	

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

SAMPLER:

Matt O'Hare
Printed Name

Matt O'Hare
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: SE15

Sample ID: 0115-04

Date: 1/26/15

Weather: Sunny ~50°F

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



140.20

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

Meter: MP-20

YSI

CONTROL SETTINGS:

Refill 13

Discharge 7

Pressure 80

Flow 300

1 ft water = 0.62L

1L = 0.24 gallons

One Well Volume (liters)

Other: _____

Total Volume Bailed (liters)

Flow Setting: _____

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1420	<u>Begin Purge</u>							
1425	<u>140.20</u>	<u>10.24</u>	<u>826</u>	<u>5.88</u>	<u>6.26</u>	<u>313</u>	<u>7</u>	<u>300</u>
1430	<u>140.20</u>	<u>10.12</u>	<u>818</u>	<u>5.42</u>	<u>6.27</u>	<u>318</u>	<u>5</u>	↓
1435	<u>140.20</u>	<u>10.08</u>	<u>828</u>	<u>4.78</u>	<u>6.28</u>	<u>321</u>	<u>4</u>	
1440	<u>140.20</u>	<u>10.07</u>	<u>823</u>	<u>4.56</u>	<u>6.29</u>	<u>324</u>	<u>3</u>	
1445	<u>140.20</u>	<u>10.07</u>	<u>827</u>	<u>4.55</u>	<u>6.29</u>	<u>323</u>	<u>1</u>	

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

SAMPLER: Matt O'Hare

Printed Name

[Signature]

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: SE1D

Sample ID: 0115-05

Date: 11/26/15

Weather: Sunny

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			

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other



40.57

DTW

TOS

Intake

BOS

Total Depth

Meter:

MP-20

YSI

CONTROL SETTINGS:

1 ft water = 0.62L

1L = 0.24 gallons

Refill

One Well Volume (liters)

Other:

Discharge

Total Volume Bailed (liters)

Flow

Pressure

Flow

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1520	Begin	Purge						
1525	140.57	10.22	918	1.44	6.40	115	9	
1530	140.57	10.10	917	0.72	6.41	100	6	
1535	140.57	10.06	916	0.61	6.42	92	3	
1540	140.57	10.06	916	0.56	6.43	89	1	

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

SAMPLER: Matt O'Hara
Printed Name

[Signature]
Signature

SCS ENGINEERS

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 042032.08

Site: CSWF

Well ID: N2D

Sample ID: 0115-06

Date: 1/27/15

Weather: Overcast ~50°F

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



149.09 DTW

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

Meter: MP-20

CONTROL SETTINGS:

1 ft water = 0.62L

1L = 0.24 gallons

Refill 12.5

One Well Volume (liters)

Other: _____

Discharge 7.5

Pressure 80

Total Volume Bailed (liters)

Flow Setting: _____

Flow 400

Total Depth

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

N2S Dry

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0810	<u>Bejn</u>	<u>Puze</u>						
0815	149.10	12.16	1200	4.26	6.86	43	36	400
0820	149.13	12.39	1174	1.03	6.96	69	6	↓
0825	149.15	12.41	1171	0.99	6.96	75	4	
0830	149.15	12.42	1165	0.95	6.96	79	4	

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

SAMPLER: _____

Printed Name

Signature

SCS ENGINEERS

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033 08

Site: CSWF

Well ID: S105

Sample ID: 0115-07

Date: 1/27/15

Weather: Overcast



136.55 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

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):

Bubbles in airstream due to faulty connection

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0900	Began Purge							
0905	136.62	13.88	1366	6.24	6.86	241	7	350
0910	136.65	13.88	1351	1.20	6.86	240	5	↓
0915	136.65	13.88	1389	1.07	6.86	236	4	
0920	136.65	13.88	1391	1.00	6.86	233	2	

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

SAMPLER: M.A. O'Hara

Printed Name

Signature

SCS ENGINEERS

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 09107033.01
 Site: CSWF
 Well ID: E3D
 Sample ID: 0115-08
 Date: 1/27/15
 Weather: Overcast

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

Meter: MP-20 YSI CONTROL SETTINGS:
 Refill 18
 Discharge 12
 Pressure 100
 Flow 400

DTW 151.46
 TOS
 Intake
 BOS
 Total Depth

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

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1010	Begin	begin						400
1015	151.48	10.97	720	7.70	7.15	296	19	↓
1020	151.50	11.05	730	7.43	7.11	304	12	
1025	151.50	10.97	738	5.42	7.08	306	8	
1030	151.50	10.94	736	3.53	7.08	249	6	
1035	151.50	10.92	738	1.70	7.11	182	5	
1038	151.50	10.90	738	1.61	7.12	178	5	
1041	151.50	10.90	735	1.55	7.12	175	4	

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWR

Well ID: NE13

Sample ID: 0115-09

Date: 1/27/15

Weather: Overcast



147.00 DTW

/ TOS

/ Intake

/ BOS

/ Total Depth

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

Meter:

MP-20

YSI

CONTROL SETTINGS:

Refill 18

Discharge 12

Pressure 110

Flow 100

1 ft water = 0.62L

1L = 0.24 gallons

One Well Volume (liters)

Other: _____

Total Volume Bailed (liters)

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):

Biohazard - Wasps

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1130	<u>Degrn Purg</u>							
1135	<u>147.00</u>	<u>12.95</u>	<u>890</u>	<u>7.41</u>	<u>7.30</u>	<u>352</u>	<u>4</u>	<u>100</u>
1140	<u>147.00</u>	<u>12.62</u>	<u>843</u>	<u>7.01</u>	<u>7.21</u>	<u>327</u>	<u>3</u>	<u>↓</u>
1145	<u>147.00</u>	<u>12.39</u>	<u>792</u>	<u>6.14</u>	<u>7.12</u>	<u>315</u>	<u>4</u>	<u>↓</u>
1150	<u>147.00</u>	<u>12.12</u>	<u>748</u>	<u>5.68</u>	<u>7.03</u>	<u>310</u>	<u>2</u>	
1155	<u>147.00</u>	<u>12.09</u>	<u>747</u>	<u>5.59</u>	<u>7.03</u>	<u>296</u>	<u>1</u>	
1200	<u>147.00</u>	<u>12.01</u>	<u>754</u>	<u>5.49</u>	<u>7.02</u>	<u>296</u>	<u>1</u>	

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

SAMPLER:

M. H. O'Hara
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: NE1D

Sample ID: 0115-10

Date: 11/27/15

Weather: Overcast ~ 45°F

DTW: 158.70

TOS: _____

Intake: _____

BOS: _____

Total Depth: _____

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

Meter: MP-20 YSI

CONTROL SETTINGS:
 Refill: 18
 Discharge: 12
 Pressure: 110
 Flow: 75

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

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

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.
1225	Begin	Large						
1230	158.70	11.97	678	6.50	6.95	314	6	75
1235	158.70	12.16	674	4.68	6.96	316	4	↓
1240	158.70	12.08	653	2.58	7.02	305	4	
1245	158.70	12.04	649	1.80	7.04	288	3	
1250	158.70	12.00	653	1.34	7.05	269	3	
1253	158.70	11.97	656	1.29	7.05	267	4	
1256	158.70	11.98	658	1.27	7.05	265	2	

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

SAMPLER: Matt O'Am
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: CSWP
 Well ID: S115
 Sample ID: 0115-11
 Date: 1/27/15
 Weather: Drizzle ~40°F

Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other
 Meter: MP-20 CONTROL SETTINGS: Refill 12 Discharge 8 Pressure 60 Flow 400
 YSI
 DTW 135.30 TOS / Intake / BOS / Total Depth /
 1 ft water = 0.62L 1L = 0.24 gallons
 One Well Volume (liters) _____ Other: _____
 Total Volume Bailed (liters) _____ 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.
1412	Begin Pump							
1417	135.30	10.03	887	1.08	7.10	31	2	400
1422	135.30	10.02	886	0.41	7.09	52	4	↓
1427	135.30	10.00	888	0.27	7.09	71	3	
1432	135.30	10.00	890	0.26	7.09	73	3	

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

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

SAMPLER: [Signature]
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: CSMF
 Well ID: S11D
 Sample ID: 0115-12
 Date: 1/27/15
 Weather: Drizzle

Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other
 Meter: MP-20 YSI
 CONTROL SETTINGS:
 Refill: 11.5
 Discharge: 8.5
 Pressure: 100
 Flow: 350

DTW: 147.30
 TOS: _____
 Intake: _____
 BOS: _____
 Total Depth: _____

1 ft water = 0.62L 1L = 0.24 gallons
 One Well Volume (liters): _____ Other: _____
 Total Volume Bailed (liters): _____ 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.
1520	Begin Pump							
1525	147.30	10.03	905	0.83	7.09	90	6	350
1530	147.30	10.03	900	0.80	7.09	87	3	↓
1535	147.30	10.03	901	0.78	7.09	85	4	
1540	147.30	10.03	904	0.75	7.10	84	2	

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: NSD

Sample ID: 0115-13

Date: 1/28/15

Weather: Overcast

DTW: 150.65

TOS: /

Intake: /

BOS: /

Total Depth: /

Sampling Method: Dedicated

Meter: MP-20

YSI

CONTROL SETTINGS:

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

1 ft water = 0.62L

1L = 0.24 gallons

Refill: 18

Discharge: 12

Pressure: 110

Flow: 50

One Well Volume (liters): _____

Other: _____

Total Volume Bailed (liters): _____

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.
0845								50
	Begin Pump							
0850	150.65	8.62	1134	7.97	7.30	317	1	↓
0855	150.65	9.04	1146	7.64	7.29	318	2	↓
0900		9.22	1167	6.13	7.28	319	1	
0905	150.65	9.33	1197	4.50	7.27	320	2	
0910		9.52	1260	3.94	7.25	249	1	
0915		9.70	1320	2.97	7.22	212	1	
0920	150.65	9.85	1420	1.70	7.15	206	3	
0925		9.96	1429	0.88	7.14	151	2	
0930	150.65	9.96	1433	0.86	7.14	150	1	

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

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

SAMPLER: M. W. O'Anne
Printed Name

[Signature]
Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSWF

Well ID: N5.8

Sample ID: 0115-14

Date: 1/28/15

Weather: Overcast

Filtered? Y N

Sample Containers: 1000 ml Poly

500 ml HNO3 x2

125 ml NaOH

Locked? Y N

Water in Protector? Y N

500 ml H2SO4 x2

250 ml Poly

Damage? Y N

40 ml VOA x3 x6

125 ml Poly

1000 ml Amber

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

Meter: MP-20

YSI

CONTROL SETTINGS:

Refill 18

Discharge 12

Pressure 110

Flow 100

1 ft water = 0.62L

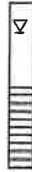
1L = 0.24 gallons

One Well Volume (liters)

Other: _____

Total Volume Bailed (liters)

Flow Setting: _____



50.90 DTW

TOS

Intake

BOS

Total Depth

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

Lock Frozen, cut open

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1038	Begin	Purge						
1043	150.90	9.91	746	5.66	7.14	270	3	100
1048	150.90	10.16	744	1.48	7.18	269	4	↓
1053	150.90	10.25	745	0.96	7.19	263	2	
1058	150.40	10.28	747	0.82	7.19	256	3	
1101	150.90	10.26	746	0.80	7.19	254	3	

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

SAMPLER: Matt O'Hare
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207072.08
 Site: CSWP
 Well ID: N3S
 Sample ID: 0115-15
 Date: 1/28/15
 Weather: Mostly Sunny

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

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

Meter: MP-20 YSI CONTROL SETTINGS:
 Refill: 12
 Discharge: 8
 Pressure: 65
 Flow: 350

DTW: 140.80
 TOS: /
 Intake: /
 BOS: /
 Total Depth: /

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

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1150								
		Begin purge						
1155	140.80	12.10	1035	5.68	7.15	25	13	350
1200	140.80	11.92	1127	1.45	7.10	-84	15	↓
1205	140.80	11.92	1122	1.41	7.10	-90	16	
1210	140.80	11.92	1128	1.41	7.10	-81	14	

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

SAMPLER: Mark O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: CSWF
 Well ID: N3D
 Sample ID: 015-16
 Date: 1/28/15
 Weather: Sunny

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

Meter: MP-20 CONTROL SETTINGS: Refill 13 Discharge 7 Pressure 80 Flow 300
 YSI 1 ft water = 0.62L 1L = 0.24 gallons
 One Well Volume (liters) _____ Other: _____
 Total Volume Bailed (liters) _____ Flow Setting: _____

DTW 151.17
 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 _____

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1236	Begin Pump							
1241	151.17	12.57	622	6.19	7.05	62	22	300
1246	151.17	12.51	620	6.14	7.05	67	10	↓
1251	151.17	12.48	621	6.13	7.05	68	4	
1256	151.17	12.47	620	6.16	7.05	70	5	

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

SAMPLER: Mark O'Hara
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: 0420703 CSWF
 Well ID: E4D
 Sample ID: 0115-17
 Date: 7/29/15
 Weather: Sunny ~50°F

Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other
 Meter: MP-20 CONTROL SETTINGS: Refill 16 Discharge 14 Pressure 110 Flow 75
 YSI One Well Volume (liters) _____ Total Volume Bailed (liters) _____
 DTW 154.12 TOS _____ Intake _____ BOS _____ Total Depth _____
 1 ft water = 0.62L 1L = 0.24 gallons

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):
 Split sample taken for test Anion
 as CSWF-012915-01 @ 0906

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0823	Begin Run							
0828	154.12	8.31	547	8.23	7.26	313	72	75 ↓
0833	154.12	9.22	556	7.88	7.42	275	46	
0838		9.84	558	6.80	7.36	212	30	
0843	154.12	10.03	555	4.66	7.40	72	32	
0848		10.06	553	3.71	7.42	53	30	
0853	154.12	10.22	544	1.60	7.53	-17	19	
0858		10.24	541	1.27	7.56	-32	21	
0903	154.12	10.24	542	1.20	7.57	-40	16	
0906	154.12	10.25	542	1.14	7.57	-39	18	

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

SAMPLER: Mark O'Hara
 Printed Name

[Signature]
 Signature

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(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207053.08
 Site: CSUF
 Well ID: E45
 Sample ID: 0115-18
 Date: 1/29/15
 Weather: Sunny ~ 50°F

Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other
 Meter: YSI CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
 MIP-20
 Refill 11 One Well Volume _____ Other: _____
 Discharge 9 (liters)
 Pressure 85 Total Volume Bailed _____
 Flow 200 (liters)

DTW 141.87
 TOS _____
 Intake _____
 BOS _____
 Total Depth _____

Filtered? Y N Locked? Y N Water in Protector? Y 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):
MS/MSD Taken Here

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1000 1002								200
	Begin Purge							
1007	141.87	10.48	1007	3.68	7.30	137	21	↓
1012		10.46	1047	3.04	7.26	159	12	
1017	141.87	10.45	1061	2.66	7.25	162	10	
1022		10.45	1064	2.60	7.25	163	6	
1025	141.87	10.46	1064	2.57	7.25	161	5	

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: SWF
 Well ID: E25
 Sample ID: 0115-19
 Date: 1/29/15
 Weather: Sunny ~ 50°F

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

Meter: MP-20 CONTROL SETTINGS:
 YSI Discharge 9 Refill 11
 Pressure 80 Flow 350

DTW 138.43 TOS / Intake / BOS / Total Depth /

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

TA split sample taken at 11:31 as GWF-012915-02

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1111	Begin Run							350
1116	138.43	11.48	1055	7.63	7.29	190	7	↓
1121	138.43	11.96	1355	1.37	7.16	212	5	
1126	138.43	11.96	1360	1.31	7.16	211	3	
1131	138.43	11.96	1356	1.26	7.16	209	4	

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: CSWF
 Well ID: E2D
 Sample ID: 0115-20
 Date: 1/29/15
 Weather: Sunny - 50°F

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: _____
 Total Volume Bailed (liters) _____ Flow Setting: _____

DTW: 148.90
 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 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.
1153	Begin	Purge						
1200	148.90	12.09	1810	1.93	7.09	210	12	
1203	148.90	12.20	1810	1.56	7.10	217	3	
1206	148.90	12.27	1810	1.53	7.08	220	4	
1209	148.90	12.39	1820	1.60	7.09	221	3	

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

~~Extended Range~~

Split to TA as CSWF-012915-03 @ 1209

Draw Back on well, Back Check Pump ~~value~~ needs to be pulled and checked

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

SAMPLER: Matt O'Han
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
Site: CSWF
Well ID: 57
Sample ID: 0115-22
Date: 1/29/15
Weather: Sunny ~ 50°F

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: _____
Total Volume Bailed (liters) _____ 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.
1320	-	10.49	691	1.87	7.55	125	11	-

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

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

SAMPLER: Matt O'Han
Printed Name

Matt O'Han
Signature

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSMP

Well ID: DOT

Sample ID: 0115-203

Date: 1/29/15

Weather: Sunny

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			

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

One Well Volume (liters) _____ Other: _____

Total Volume Bailed (liters) _____ Flow Setting: _____

DTW TOS Intake BOS Total Depth

Refill Discharge Pressure Flow

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1345	-	8.82	646	1.76	7.52	118	6	-

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

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

SAMPLER: Matt O'Hare
Printed Name

[Signature]
Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207053.02
 Site: CSWF
 Well ID: ETS
 Sample ID: 0115-24
 Date: 1/29/15
 Weather: Sunny -50°F

DTW: 138.79
 TOS: /
 Intake: /
 BOS: /
 Total Depth: /

Sampling Method: Dedicated
 Meter: MP-20
 YSI

1.75" QED SamplePro
 Bail
 Peristaltic
 Grab
 Other

CONTROL SETTINGS:
 Refill: 12
 Discharge: 8
 Pressure: 70
 Flow: 300

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.
1410	Begin Purge							
1415	138.79	11.08	1150	7.19	7.31	210	4	300
1420	138.79	11.11	1152	6.24	7.24	224	3	↓
1425	138.79	11.05	1155	5.94	7.21	234	3	
1430	138.79	11.06	1149	5.98	7.21	234	3	

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

YSI Taken Here

Duplicate taken as 0115-25 @ 1445

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: CSMP

Well ID: EID

Sample ID: 0115-26

Date: 1/29/15

Weather: Sunny

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			

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

Meter: MP-28 YSI

CONTROL SETTINGS:

1 ft water = 0.62L 1L = 0.24 gallons

Refill: 11 One Well Volume (liters): _____ Other: _____

Discharge: 9 Total Volume Bailed (liters): _____ Flow Setting: _____

Pressure: 80

Flow: 300



138.53 DTW

TOS

Intake

BOS

Total Depth

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

Duplicate - 2 taken as 0115-27 @ 1530

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1457	<u>Begin Pump</u>							
1502	<u>138.53</u>	<u>11.22</u>	<u>1560</u>	<u>6.97</u>	<u>7.29</u>	<u>235</u>	<u>3</u>	<u>300</u>
1507	<u>138.53</u>	<u>11.25</u>	<u>1640</u>	<u>3.45</u>	<u>7.23</u>	<u>241</u>	<u>2</u>	↓
1512	<u>138.53</u>	<u>11.23</u>	<u>1640</u>	<u>1.36</u>	<u>7.19</u>	<u>240</u>	<u>4</u>	
1517	<u>138.53</u>	<u>11.22</u>	<u>1640</u>	<u>1.30</u>	<u>7.19</u>	<u>238</u>	<u>1</u>	

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

SAMPLER: Mattho Home
Printed Name

Mattho
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>		Sampling Method : <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: <u>BSWF</u>		149.18 DTW	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L 1L = 0.24 gallons				
Well ID: <u>W25</u>		TOS	YSI	Refill <u>11</u>	One Well Volume	Other :		
Sample ID: <u>0115-78</u>		Intake		Discharge <u>9</u>	(liters)	Flow		
Date: <u>7/30/15</u>		BOS		Pressure <u>80</u>	Total Volume Bailed	Setting :		
Weather: <u>Heavy Fog</u>		Total Depth		Flow <u>300</u>	(liters)			
Filtered? <u>Y</u> <input checked="" type="checkbox"/> <input type="checkbox"/> <u>N</u>	Locked? <u>Y</u> <input checked="" type="checkbox"/> <input type="checkbox"/> <u>N</u>	Water in Protector? <u>Y</u> <input checked="" type="checkbox"/> <input type="checkbox"/> <u>N</u>	Damage? <u>Y</u> <input type="checkbox"/> <input checked="" type="checkbox"/> <u>N</u>					
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.
0816	Begin	Foggy						
0821	149.24	9.59	905	6.16	6.19	367	2	300
0826	149.25	9.66	899	6.04	6.19	367	3	↓
0831	149.25	9.67	901	6.02	6.19	367	2	↓
0836	149.25	9.68	901	6.00	6.19	367	2	

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

Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 0.5°C, Turb. \pm 10% or \leq 5

SAMPLER: Math O'Hare
 Printed Name

(Signature)
 Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>CSMF</u>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); margin-right: 5px;">▼</div> </div>	Meter: <u>MP-20</u> YSI			CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons		
Well ID: <u>WR1</u>		Refill	_____			One Well Volume	_____
Sample ID: <u>0115-29</u>		Discharge	_____			(liters)	Other: _____
Date: <u>1/30/15</u>		Pressure	_____			Total Volume Bailed	_____
Weather: <u>Heavy Fog</u>	Flow	_____			(liters)	Flow Setting: _____	
Filtered? Y <u>(N)</u>	Locked? Y <u>(N)</u>	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.
0900	—	7.92	832	2.19	6.25	378	3	—

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

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

SAMPLER: Melt O'Hare _____

Printed Name Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 01207053.08

Site: CSWF

Well ID: DNR

Sample ID: 0115-34

Date: 1/30/15

Weather: Foggy

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			

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

Meter: MP-20 (circled) YSI

CONTROL SETTINGS:

1 ft water = 0.62L 1L = 0.24 gallons

Refill _____

Discharge _____

Pressure _____

Flow _____

One Well Volume _____ (liters) Other: _____

Total Volume Bailed _____ (liters) Flow Setting: _____

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1235	-	9.69	836	0.80	6.72	84	1	-

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

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

SAMPLER: Math O'Hara
Printed Name

Math O'Hara
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.01
Site: CSWF
Well ID: CIS
Sample ID: _____
Date: 1/26/15
Weather: _____

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

Meter: MP-20 | **CONTROL SETTINGS:**
YSI | 1 ft water = 0.62L | 1L = 0.24 gallons

/ DTW | Refill _____ | One Well Volume _____ | Other : _____
/ TOS | Discharge _____ | (liters)
/ Intake | Pressure _____ | Total Volume Bailed _____ | Flow
BOS | Flow _____ | (liters)
94.50 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.
DRY @ 94.50								

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

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

SAMPLER: Matt O'Hare
Printed Name

Matt O'Hare
Signature

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/26/15					
Time	1000					
Weather (sky or precip, temp)	Sunny ~45°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	439	4.03	6.98			
Post Cal Reading	445	4.01	7.00	8.5	100, 100, 20, 0.1	
Discrepancy	None					
Calib. Successful?	yes					
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSWF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/27/15					
Time	0745					
Weather (sky or precip, temp)	Overcast ~50°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 400, 20, <0.1	
Pre-Cal Reading	445	4.01	7.01			
Post Cal Reading	445	4.01	7.00	8.5	800, 100, 20, 0	
Discrepancy	None					
Calib. Successful?	Yes					
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CS WF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	11/28/15					
Time	0815					
Weather (sky or precip, temp)	Overcast ~45°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	448	4.03	6.90			
Post Cal Reading	445	4.01	7.00	8.5	800, 100, 20, 1	
Discrepancy	none					
Calib. Successful?	yes					
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSMF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/29/15					
Time	0745					
Weather (sky or precip, temp)	Heavy Fog ~45°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	445	4.00	7.04			
Post Cal Reading	445	4.01	7.00	8.5	800, 100, 20, 1	
Discrepancy	None					
Calib. Successful?	Yes					
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSMF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	11/30/15					
Time	0745					
Weather (sky or precip, temp)	Heavy Fog ~ 40°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	439	4.01	6.99			
Post Cal Reading	445	4.01	7.00	8.5	800, 100, 20, <0.1	
Discrepancy	None					
Calib. Successful?	yes					
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSME					

* 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** 02/03/15 **PROJECT NAME** Island County
TEMP 48 **BARO** 29.86" **WIND** 2E **WEATHER** Cloudy

SCS-FS LABOR	HOURS	OT				HOURS	OT
00001	4.0		00003			4.0	
00002	4.0						12.0 total
EQUIP, SVCS, MTLs, MLG	QTY	UNITS				QTY	UNITS
Service Truck	1	\$18.50 Hourly		SCS Field Services		12.0	\$222.00
Gem - 2000	1	\$185.00 Daily		SCS Field Services		1	\$185.00
INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	CH4 (%-LEL)	O2 (%-VOL)	Hexane (PPM)		
MODEL	(S/N) (RMA #)						
Gem 2 Nav	10772	15.0	15.0	20.9			
Gem 2 Nav	10772	50.0	35.0	20.8			
Time	Device	Flow	Blower Hours.	Amps	Condensate		
1000	BL 1		67518.9	4.8			
1005	BL 2		89319.2	0.0	72.2"		
	FL						

SUMMARY

0445 Left Tacoma and traveled to Island County.
 0715 Arrived onsite and calibrated my Gem.
 0725 Began the monitoring of the Hwy 20 perimeter probes.
 0745 Met with Ben and gave him a tour of the landfill property and then had him monitor the interior probes.
 0915 Began the monitoring of the wellfield.
 1000 Began the monitoring of the BFS.
 1045 Uploaded all of my readings and emailed them to Eric for review.
 1130 Continued to monitor the probes as well as the structures.
 1230 Packed up our equipment and left the site.
 1315 Caught the ferry back to Port Townsend.
 1645 Arrived back in Tacoma and began work on my daily paperwork.

PREPARED BY: Brad Beach **ACCEPTED BY:** _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 02/03/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: E Barometric Pressure: 29.86"Hg

Air Temperature: 48 °F General Weather Conditions: Cloudy / Rain

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. 10772

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

Time	CH4	CO2	O2
0925	50.0	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1135	49.8	35.1	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: 02/03/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: E Barometric Pressure: 29.86"Hg

Air Temperature: 48 °F General Weather Conditions: Cloudy / Rain

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. 10772

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

Time	CH4	CO2	O2
0715	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0925	15.1	14.8	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: 02/03/15

Site Name: IC

Technician: BV

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: E Barometric Pressure: 29.86"Hg

Air Temperature: 48 °F General Weather Conditions: Cloudy / Rain

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
0820	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1145	15.3	15.2	21.2

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

SCS ENGINEERS

April 30, 2015

File No. 04207033.08

**Subject: Second Quarter 2015 Groundwater Monitoring Event
Coupeville Solid Waste Facility, Island County, Washington**

Sampling Dates: April 27-29, 2015
Personell: Matthew O'Hare and Sam Graber

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells C1S (0415-05) and N5S (0415-16).
- Monitoring well N2S was dry.
- Water level elevations were measured at two monitoring wells, N4S and W1S, on April 27, 2015.
- Meters were calibrated daily prior to sampling.
- Well E2D had its pump pulled after sampling due to faulty check valve during the 1Q15 event. The well was sampled using a QED deployable bladder pump.
- Split samples were collected for VOC analysis at E2D, E2S, and E4D and sent to TestAmerica of Tacoma, Washington for comparison.

Date Sampled	Sample Number	Well Number
4/27/2015	0415-01	N2D
4/27/2015	0415-02	NE1S
4/27/2015	0415-03	C1S
4/27/2015	0415-04	NE1D
4/27/2015	0415-05	C1S (dup)
4/27/2015	0415-06	N1D
4/27/2015	0415-07	N1SR
4/28/2015	0415-08	SE1S
4/28/2015	0415-09	S10S
4/28/2015	0415-10	SE1D
4/28/2015	0415-11	N3D
4/28/2015	0415-12	N5D
4/28/2015	0415-13	N3S
4/28/2015	0415-14	N5S

Date Sampled	Sample Number	Well Number
4/28/2015	0415-15	E1S
4/28/2015	0415-16	N5S (dup)
4/28/2015	0415-17	E1D
4/28/2015	0415-18	E4S
4/28/2015	0415-19	E3D
4/28/2015	0415-20	E4D
4/28/2015	0415-21	W1D
4/28/2015	0415-22	S11D
4/28/2015	0415-23	S11S
4/29/2015	0415-24	E2S
4/29/2015	0415-25	W2S
4/29/2015	0415-26	STP
4/29/2015	0415-27	E2D
4/29/2015	0415-28	DOT
4/29/2015	0415-29	S7
4/29/2015	0415-30	DNR
4/29/2015	0415-31	WR1

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L	1L = 0.24 gallons			
Well ID: <u>N2D</u>	MP-20	Refill	One Well Volume (liters)	Other:		
Sample ID: <u>0415-01</u>	<u>YSI</u>	Discharge	Total Volume Bailed (liters)	Flow Setting:		
Date: <u>4/27/15</u>		Pressure				
Weather: <u>Sunny ~70°F</u>		Flow				
Filtered? Y <u>N</u>	Locked? Y <u>N</u>	Water in Protector? Y <u>N</u>	Damage? Y <u>N</u>			
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.
1532	<u>Begin Pump</u>							
1537		13.5	1170	1.58	6.76	-146	2	350
1542	149.03	13.5	1166	1.15	6.80	-148	3	↓
1547		13.5	1179	0.83	6.87	-149	2	
1552	149.03	13.5	1181	0.89	6.87	-147	2	

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

N2S DRY

N4S = 123.80

W1S = 109.52

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

SAMPLER: Matt O'Hare
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: MP-20	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>NEIS</u>	Intake: <u>YSI</u>	Refill	One Well Volume	Other :		
Sample ID: <u>0415-02</u>	BOS	Discharge	(liters)	Flow		
Date: <u>4/27/15</u>	Total Depth: <u>151.50</u>	Pressure	Total Volume Bailed	Setting :		
Weather: <u>Overcast</u>		Flow	(liters)			
Filtered? <u>Y</u> <u>N</u>	Locked? <u>Y</u> <u>N</u>	Water in Protector? <u>Y</u> <u>N</u>	Damage? <u>Y</u> <u>N</u>			
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	<u>Begin Purge</u>							
1055		<u>12.8</u>	<u>648</u>	<u>8.74</u>	<u>6.94</u>	<u>62</u>	<u>1</u>	<u>200</u>
1100		<u>12.6</u>	<u>732</u>	<u>7.73</u>	<u>6.75</u>	<u>51</u>	<u>2</u>	↓
1105		<u>12.5</u>	<u>750</u>	<u>7.18</u>	<u>6.70</u>	<u>42</u>	<u>1</u>	
1108		<u>12.5</u>	<u>754</u>	<u>6.98</u>	<u>6.72</u>	<u>36</u>	<u>1</u>	
1111		<u>12.4</u>	<u>755</u>	<u>7.03</u>	<u>6.74</u>	<u>32</u>	<u>1</u>	

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

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

SAMPLER: Matt O'Hare
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method : Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other	Meter: CONTROL SETTINGS: MP-20 Refill: 10 YSI Discharge: 5 Pressure: 55 Flow: 250	
Site: Island County CSWF	DTW: 92.06	1 ft water = 0.62L 1L = 0.24 gallons One Well Volume (liters): _____ Other: _____ Total Volume Bailed (liters): _____ Flow Setting: _____		
Well ID: C15	TOS: /			
Sample ID: 0415-03	Intake: /			
Date: 4/27/15	BOS: /			
Weather: Sunny 65°F	Total Depth: /			
Filtered? Y <input checked="" type="radio"/> N	Locked? Y <input checked="" type="radio"/> N	Water in Protector? Y <input checked="" type="radio"/> N	Damage? Y <input checked="" type="radio"/> 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.
1232	H ₂ O + surface							
1237	92.60	13.38	450	3.26	6.53	238.0	2	
1240		13.57	441	3.23	6.56	240.4		
1243		13.69	447	3.19	6.53	244.0		
1246		13.55	459	3.15	6.53	251.9		
1249	42.65	13.61	463	3.11	6.51	254.3		
1252		13.61	464	3.18	6.51	255.7	5	

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

1228 basin pulse

Duplicate taken as Sample ID 0415-05

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

SAMPLER: _____
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: NEID

Sample ID: 0415-04

Date: 4/27/15

Weather: Partly Sunny ~55°

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			

Sampling Method: Dedicated 1.75" QED SamplePro Bail

Meter: MP-20 YSI

CONTROL SETTINGS:

1 ft water = 0.62L 1L = 0.24 gallons

DTW: 158.62

TOS

Intake

BOS

Total Depth

Refill

Discharge

Pressure

Flow

One Well Volume (liters)

Total Volume Bailed (liters)

Other:

Flow Setting:

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1148	Begin Pump							
1153		13.4	679	8.18	6.98	-4	3	300
1158	158.62	13.2	669	4.03	7.06	-22	2	↓
1203		13.0	659	2.77	7.09	-42	1	
1208		12.9	657	1.55	7.16	-83	2	
1213	158.62	12.9	658	1.24	7.20	-100	1	
1216		12.8	659	1.20	7.20	-101	1	

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

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

SAMPLER: Matt Offner
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: NID

Sample ID: 0415-06

Date: 4/21/15

Weather: Sunny ~70°F

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			

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

Meter: MP-20 YSI

CONTROL SETTINGS:

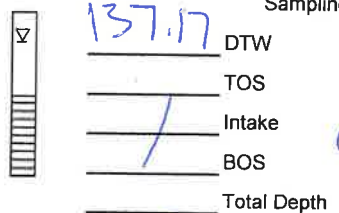
1 ft water = 0.62L 1L = 0.24 gallons

Refill _____ One Well Volume _____ Other: _____
(liters)

Discharge _____ Flow Setting: _____

Pressure _____ Total Volume Bailed _____
(liters)

Flow _____



TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1615	<u>Begin Purge</u>							
1620		<u>11.9</u>	<u>1472</u>	<u>7.80</u>	<u>7.70</u>	<u>-71</u>	<u>3</u>	<u>300</u>
1625		<u>12.0</u>	<u>1480</u>	<u>5.02</u>	<u>7.49</u>	<u>-58</u>	<u>2</u>	↓
1630		<u>12.0</u>	<u>1483</u>	<u>5.09</u>	<u>7.23</u>	<u>-66</u>	<u>1</u>	
1635		<u>12.0</u>	<u>1490</u>	<u>5.03</u>	<u>7.19</u>	<u>-74</u>	<u>1</u>	

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

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

SAMPLER: [Signature]
Printed Name _____

[Signature]
Signature _____

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: Dedicated		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF			91.69 DTW	Meter: CONTROL SETTINGS:	1 ft water = 0.62L		1L = 0.24 gallons		
Well ID: NISR			TOS	MP-20	Refill: 20	One Well Volume (liters)		Other: _____	
Sample ID: 0415-07			Intake	YSI	Discharge: 10	Total Volume Bailed (liters)		Flow Setting: _____	
Date: 4/ 1/15			BOS		Pressure: 60				
Weather: _____			Total Depth		Flow: 250				
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	H2O to surface							
1455	42.13	13.25	437	3.63	6.58	179.1		
1458		13.08	440	3.40	6.57	180.2	0	
1501		12.96	440	3.32	6.56	181.3		
1504		13.06	442	3.28	6.56	182.3		
1507		13.04	445	3.25	6.56	183.2		
1510		13.02	446	3.22	6.56	183.9	0	

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

1445 basin purge

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

SAMPLER: _____
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	▼	140.03	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF			Meter: <u>CONTROL SETTINGS:</u>			1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>SEIS</u>			MP-20	Refill	One Well Volume	(liters)	Other:	
Sample ID: <u>0415-08</u>			YSI	Discharge	Total Volume Bailed	(liters)	Flow	Setting:
Date: <u>4/18/15</u>				Pressure				
Weather: <u>Overcast</u>				Flow				
Filtered? <u>Y</u> <u>N</u>	Locked? <u>Y</u> <u>N</u>	Water in Protector? <u>Y</u> <u>N</u>	Damage? <u>Y</u> <u>N</u>					
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.
0910	Begin Purge							
0915	"	10.4	832	6.26	6.96	41	7	350
0920		10.3	827	5.74	6.98	46	5	
0925	140.05	10.3	825	5.60	7.00	47	4	
0930		10.2	827	5.63	7.07	50	2	

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

SAMPLER: Matt O'Hara
Printed Name

Matt O'Hara
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.24 gallons
Well ID: <u>5105</u>	<u>YSI</u>	Refill: <u>10</u>	Discharge: <u>10</u>	Pressure: <u>75</u>	Flow: <u>250</u>	One Well Volume (liters): _____ Other: _____
Sample ID: <u>0415-09</u>	DTW: <u>136.16</u>	Total Depth: _____		Total Volume Bailed (liters): _____		Flow Setting: _____
Date: <u>4/27/15</u>	TOS: _____	BOS: _____		Weather: <u>Sunny 72°F</u>		
Filtered? Y <u>N</u>	Locked? Y <u>N</u>	Water in Protector? Y <u>N</u>	Damage? Y <u>N</u>	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.
1606	H ₂ O to surface							
1611		16.62	1374	3.80	6.90	169.6	0	
1614		16.19	1407	2.13	6.78	169.6		
1617		15.94	1408	1.62	6.77	164.3		
1620		13.77	1402	1.29	6.76	168.7		
1623		15.61	1400	1.17	6.76	168.3		
1626	136.25	15.53	1399	1.11	6.76	168.0	1	

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

1600 basin purge.

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

SAMPLER: _____
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: SE1D

Sample ID: 0415-10

Date: 4/28/15

Weather: Overcast

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

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 Refill _____ One Well Volume _____ Other: _____
 YSI Discharge _____ (liters)
 Intake Pressure _____ Total Volume Bailed _____ Flow Setting: _____
 BOS Flow _____ (liters)
 Total Depth _____



140.40

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
<u>0950</u>	<u>Begin purge</u>							
<u>0955</u>		<u>10.2</u>	<u>921</u>	<u>3.43</u>	<u>7.42</u>	<u>38</u>	<u>3</u>	
0955 <u>1000</u>		<u>10.2</u>	<u>920</u>	<u>1.56</u>	<u>7.53</u>	<u>15</u>	<u>3</u>	
<u>1005</u>	<u>140.40</u>	<u>10.2</u>	<u>922</u>	<u>0.93</u>	<u>7.59</u>	<u>-8</u>	<u>2</u>	
<u>1010</u>		<u>10.2</u>	<u>922</u>	<u>0.77</u>	<u>7.61</u>	<u>-22</u>	<u>2</u>	

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

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

SAMPLER: Mark O'Shea
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>N3D</u>	DTW: <u>151.00</u>	Refill: <u>8.0</u>	One Well Volume (liters):	Other: _____		
Sample ID: <u>0415-11</u>	Intake: _____	Discharge: <u>7.0</u>	Total Volume Bailed (liters):	Flow Setting: _____		
Date: <u>4/20/15</u>	BOS: _____	Pressure: <u>80</u>	Flow: <u>250 ml/min</u>			
Weather: <u>cloudy 50°F</u>	Total Depth: _____					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
908 H ₂ O to surface								
912		12.86	627	5.96	6.52	316.5	2	
916	151.10	12.59	625	5.83	6.62	312.5		
919		12.51	625	4.91	6.63	310.4		
922	#	12.46	624	4.05	6.81	307.8		
925		12.37	628	2.44	6.93	302.8		
928		12.31	631	2.35	7.03	297.5		
931		12.25	632	1.80	7.18	289.2		
934		12.17	630	1.40	7.30	280.7		
937		12.16	628	1.20	7.40	270.4	5	

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

904 basin purge.

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

SAMPLER: Sam Grabar
Printed Name

Sam Grabar
Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: NSD

Sample ID: 0415-12

Date: 4/28/15

Weather: Overcast



150.08

Sampling Method: Dedicated

1.75" QED SamplePro

Bail

Peristaltic

Grab

Other

Meter: MP-20

CONTROL SETTINGS:

1 ft water = 0.62L

1L = 0.24 gallons

Refill

10

One Well Volume (liters)

Other:

Discharge

10

Pressure

110

Total Volume Bailed (liters)

Flow Setting:

Flow

150

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.
1045	Begin Purge							
1050		10.1	1255	7.96	7.46	12.4	8	150
1055		10.2	1402	4.39	7.27	-14.2	5	↓
1100		10.3	1438	1.25	7.27	-52.6	3	
1105		10.4	1442	0.92	7.27	-71.4	3	
1110		10.4	1443	0.80	7.28	-83.0	2	

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

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

SAMPLER:

M. J. O'Hare

Printed Name

M. J. O'Hare

Signature

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(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	▽	40.55	Sampling Method: DTW	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF			Meter: CONTROL SETTINGS:	1 ft water = 0.62L		1L = 0.24 gallons			
Well ID: N35			MP-20	Refill: 8.0	One Well Volume (liters)		Other: _____		
Sample ID: 0415-13			YSI	Discharge: 7.0	Total Volume Bailed (liters)		Flow Setting: _____		
Date: 4/28/15			BOS	Pressure: 75					
Weather: 50°F cloudy			Total Depth	Flow: 250					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

began ~~purge~~ purge at 1000

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1006	H2O to surface							
1011		12.00	1100	1.14	7.16	-73.2	6	
1014		11.95	1100	1.95	7.15	-65.3		
1017	140.73	11.44	1083	3.99	7.16	-31.6		
1020		11.44	1078	4.50	7.16	-6.2		
1023		11.93	1076	4.69	7.16	11.9		
1026		11.91	1075	4.81	7.16	52.7	1	

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

SAMPLER: Sam Graber
Printed Name

Sam Graber
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: <u>CONTROL SETTINGS:</u>	MP-20	YSI	1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>NSS</u>	DTW	TOS	Intake	Refill: <u>12.5</u>	One Well Volume (liters)	Other: _____
Sample ID: <u>0415-14</u>	<u>150.25</u>	<u>/</u>	BOS	Discharge: <u>7.5</u>	Total Volume Bailed (liters)	Flow Setting: _____
Date: <u>4/28/15</u>	Total Depth			Pressure: <u>160</u>		
Weather: <u>overcast</u>				Flow: <u>300</u>		
Filtered? <u>Y N</u>	Locked? <u>Y N</u>	Water in Protector? <u>Y N</u>	Damage? <u>Y N</u>			
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):

DUP-2 taken as 0415-16 @ 1155

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1131	<u>Begin Pump</u>							
1136		<u>10.3</u>	<u>748</u>	<u>3.06</u>	<u>7.35</u>	<u>-48.6</u>	<u>11</u>	<u>300</u>
1141		<u>10.4</u>	<u>750</u>	<u>1.43</u>	<u>7.32</u>	<u>-43.1</u>	<u>7</u>	<u>↓</u>
1146		<u>10.4</u>	<u>750</u>	<u>1.22</u>	<u>7.30</u>	<u>-57.0</u>	<u>4</u>	<u>↓</u>
1151		<u>10.4</u>	<u>750</u>	<u>1.13</u>	<u>7.30</u>	<u>-62.8</u>	<u>4</u>	<u>↓</u>

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

SAMPLER: MA O'Hare
Printed Name

[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	▽	138.89 DTW	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L		1L = 0.24 gallons	
Well ID: <u>EIS</u>		TOS	MP-20	Refill: <u>12</u>	One Well Volume (liters)	Other: _____	
Sample ID: <u>0415-15</u>		Intake	<u>YSI</u>	Discharge: <u>8</u>	Flow Setting: _____		
Date: <u>4/28/15</u>		BOS		Pressure: <u>85</u>	Total Volume Bailed (liters)	_____	
Weather: <u>50°F cloudy</u>		Total Depth		Flow: <u>250 mL/min</u>	_____		
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
1121	H ₂ O to surface							
1126		11.39	1137	5.75	6.95	134.4		
1124	139.10	11.29	1133	5.66	6.93	138.2	1	
1132		11.26	1132	5.53	6.93	140.4		
1135		11.23	1134	5.51	6.93	142.7		
1138		11.23	1137	5.48	6.92	146.0		
1141	139.10	11.22	1140	5.48	6.92	149.8	0	

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

1117 peak perc

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature


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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	 138.60 DTW	Meter: CONTROL SETTINGS:	1 ft water = 0.62L		1L = 0.24 gallons	
Well ID: EID		MP-20	Refill: <u>4</u>	One Well Volume (liters)		Other: _____
Sample ID: 0415-17	TOS	YSI	Discharge: <u>6</u>	Total Volume Bailed (liters)		Flow Setting: _____
Date: 4/28/15	Intake		Pressure: <u>35</u>			
Weather: 50°F cloudy	BOS		Flow: <u>250 ml/min</u>			
	Total Depth					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

1212 started purge

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1215	H ₂ O to surface							
1220		11.44	1541	6.75	7.33	163.8		
1223		11.47	1614	6.62	7.35	166.7	0	
1226		11.50	1628	6.573	7.31	169.4		
1229	139.00	11.44	1673	2.30	7.11	169.1		
1232		11.41	1627	1.26	7.07	158.8		
1235		11.40	1624	1.06	7.05	153.7	1	
62								

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

SAMPLER: Sam Carubar
Printed Name

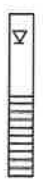
[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u> Meter: <u>MP-20</u> <u>YSI</u>	1.75" QED SamplePro Bail Peristaltic Grab Other	CONTROL SETTINGS: Refill: <u>12</u> Discharge: <u>8</u> Pressure: <u>85</u> Flow: <u>350</u>	1 ft water = 0.62L 1L = 0.24 gallons One Well Volume (liters): _____ Total Volume Bailed (liters): _____ Other: _____ Flow Setting: _____
Site: Island County CSWF	DTW: <u>141.88</u>	TOS: _____	Intake: _____	BOS: _____	Total Depth: _____
Well ID: <u>E4S</u>					
Sample ID: <u>0415-18</u>					
Date: <u>4/28/15</u>					
Weather: <u>Drizzle</u>					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
1350	<u>Begin</u>	<u>Perge</u>						
1355		10.7	974	5.40	7.14	9.6	1	350
1400		10.6	1038	3.75	7.01	3.3	1	↓
1405		10.6	1068	3.27	6.99	-1.7	0	
1410		10.6	1083	2.94	7.00	-6.7	1	
1415		10.6	1091	2.83	7.02	-2.2	1	

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

SAMPLER: Matt Ottave
Printed Name

[Signature]
Signature

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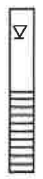
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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: Island County CSWF
 Well ID: E3D
 Sample ID: ~~0415-19~~
 Date: 4/9/15
 Weather: 55°F slight rain



151.51 DTW
 TOS
 Intake
 BOS
 Total Depth

Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other
 Meter: CONTROL SETTINGS:
 MP-20 Refill 11.0 One Well Volume (liters) Other:
 YSI Discharge 9.0 Flow Setting:
 Pressure 100 Total Volume Bailed (liters)
 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):
 1405 basin pulse

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1410	H2O to surface	11.10	731	7.39	7.92	183.5	0	
1415		10.99	734	7.31	7.77	185.3	0	
1418		10.99	735	6.45	7.69	186.1		
1421	151.60	10.93	737	5.40	7.57	174.6		
1424		10.90	736	2.15	7.60	137.1		
1427		10.90	735	1.39	7.69	140.1		
1430		10.92	736	1.11	7.72	134.1		
1433		10.90	736	0.90	7.74	114.4		
1436		10.91	737	0.78	7.76	112.1	0	
1439								

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

SAMPLER: Sam Grabar
 Printed Name

[Signature]
 Signature

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: EHP

Sample ID: 0415-20

Date: 4/28/15

Weather: rain

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			

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

One Well Volume (liters): _____

Other: _____

Flow Setting: _____

Total Volume Bailed (liters): _____

Refill: 10

Discharge: 20

Pressure: 110

Flow: 200

DTW: 154.10

TOS: _____

Intake: _____

BOS: _____

Total Depth: _____



TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1433	Begin	burst						
1438	154.11	10.7	556	3.82	7.95	-72.1	74	200
1443		10.7	538	1.17	8.08	-120.66	3	↓
1448		10.7	541	0.87	8.03	-137.46	4	
1453	154.12	10.7	544	0.73	8.00	-146.96	3	

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

split sample sent to test America
as CSWF-042015-01

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

SAMPLER: Matt Offine
Printed Name

[Signature]
Signature

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	DTW: <u>140.15</u>	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L		1L = 0.24 gallons	
Well ID: <u>W1D</u>	TOS: <u>/</u>	MP-20	Refill: <u>9.0</u>	One Well Volume (liters): _____	Other: _____	
Sample ID: <u>0415-21</u>	Intake: <u>/</u>	<u>YSI</u>	Discharge: <u>6.0</u>	Total Volume Bailed (liters): _____	Flow Setting: _____	
Date: <u>4/23/15</u>	BOS: <u>/</u>	Total Depth: _____	Pressure: <u>30</u>	Flow: <u>250 mL/min</u>		
Weather: <u>50°F cloudy</u>						
Filtered? Y <input checked="" type="radio"/> N <input type="radio"/>	Locked? Y <input checked="" type="radio"/> N <input type="radio"/>	Water in Protector? Y <input checked="" type="radio"/> N <input type="radio"/>	Damage? Y <input checked="" type="radio"/> N <input type="radio"/>			
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.
1525	H ₂ O to surface							
1530		10.33	979	6.65	7.19	132.4		
1533		10.36	980	6.41	7.21	184.7	1	
1536		10.37	980	6.22	7.25	136.4		
1539		10.36	978	3.29	7.44	116.3		
1542		10.37	975	1.90	7.64	59.3		
1545		10.36	974	1.40	7.75	46.2		
1548	140.21	10.37	974	1.11	7.79	32.2		
1551		10.37	973	0.91	7.83	24.2		
1554		10.37	973	0.77	7.85	16.9	1	

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

1520 begin purge.

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

SAMPLER: SAM Grubar
Printed Name

[Signature]
Signature

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: S11P

Sample ID: 0415-22

Date: 4/28/15

Weather: Overcast

DTW: 147.00

TOS: /

Intake: /

BOS: /

Total Depth: /

Sampling Method: Dedicated

Meter: MP-20
YSI

CONTROL SETTINGS:
 Refill: _____
 Discharge: _____
 Pressure: _____
 Flow: _____

1.75" QED SamplePro
Bail
Peristaltic
Grab
Other

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):

Bubbles in water stream

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1630	Begin	Parse						
1635		10.1	914	9.66	7.63	21.9	3	
1640	147.00	10.1	905	3.33	7.41	-0.5	2	
1645		10.1	905	1.97	7.41	-22.8	2	
1650		10.1	909	1.00	7.46	-34.0	1	
1655		10.1	913	1.04	7.50	-52.2	1	

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

SAMPLER: Matt O'Han
Printed Name

[Signature]
Signature


SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u> Meter: <u>MP-20</u> <u>YSI</u>	1.75" QED SamplePro Bail Peristaltic Grab Other	CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons One Well Volume (liters) Total Volume Bailed (liters)	Other: Flow Setting:
Site: <u>Island County CSWF</u>	<u>135.15</u>	DTW	Refill: <u>11.5</u>	Pressure: <u>80</u>	Flow: <u>250 mL/min</u>
Well ID: <u>5115</u>		TOS	Discharge: <u>8.5</u>		
Sample ID: <u>0415-23</u>		Intake			
Date: <u>4/23/15</u>		BOS			
Weather: <u>50°F cloudy</u>		Total Depth			
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

1632 begin purge

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1636	H ₂ O to surface							
1641		10.10	883	7.00	7.68	134.3		
1646		10.03	884	3.93	7.64	-61.3	1	
1650		10.02	884	3.01	7.65	-75.8		
1653		9.95	886	1.50	7.68	-81.5		
1656	135.68	9.99	887	0.62	7.70	-74.3		
1659		9.99	889	0.39	7.71	-37.3		
1702		10.00	885	0.20	7.64	-9.8	1	

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

SAMPLER: Sam Graber
Printed Name

Sam Graber
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04201033.08

Site: CSLF

Well ID: E2S

Sample ID: 0415-24

Date: 4/29/15

Weather: Partly Sunny ~55°F

Filtered? Y N Locked? 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			

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 Total Volume Bailed (liters) _____ Flow Setting: _____

Pressure 80

Flow 350

DTW 138.30

TOS _____

Intake _____

BOS _____

Total Depth _____

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0920	Began Purge							
0925		12.3	1351	4.28	6.39	103.7	4	350
0930		12.3	1354	1.09	6.57	52.6	2	↓
0935	146.30	12.3	1348	1.10	6.70	8.6	1	
0940		12.3	1352	1.16	6.71	5.9	1	

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

Split sample sent to TestAmerica as CSLF-042915-02 @

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

SAMPLER: MWH of Arc
Printed Name


[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	 148.99	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	DTW	Meter: CONTROL SETTINGS:	1 ft water = 0.62L		1L = 0.24 gallons		
Well ID: W25	TOS	MP-20	Refill: <u>9</u>	One Well Volume (liters):	Other: _____		
Sample ID: 0415-25	Intake	<u>YSI</u>	Discharge: <u>6</u>	Total Volume Bailed (liters):	Flow Setting: _____		
Date: 4/24/15	BOS		Pressure: <u>160</u>				
Weather: 55°F sunny	Total Depth		Flow: <u>250 mL/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

835 resin purge

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
842	H2O at surface							
847	149.07	9.99	442	7.15	6.76	333.6	1	
851		10.00	445	6.98	6.87	327.2		
854		9.98	443	6.87	6.94	321.6		
857		10.01	442	6.81	6.49	318.2		
900		10.00	442	6.79	7.00	317.2		
903	144.10	10.02	442	6.78	7.01	316.7	1	

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

SAMPLER: Sam Grober
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	DTW	Meter: CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.24 gallons	
Well ID: E20	TOS	MP-20		Refill: 13.0	One Well Volume (liters)		Other: _____
Sample ID: 0415-27	Intake	YSI		Discharge: 7.0			Flow Setting: _____
Date: 4/29/15	BOS	Pressure: 100		Total Volume Bailed (liters)			
Weather: 60°F partly cloudy	Total Depth	Flow: 200 mL/min					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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					



148.95 DTW
 TOS
 Intake
 BOS
 Total Depth

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

split sample sent to TA
 45 CSWF-042915-03

955 began purge

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1001	H ₂ O to surface							
1015		12.16	798	0.37	6.50	34.9		
1020		12.03	798	0.30	6.50	34.1		
1023	148.95	12.06	799	0.28	6.49	31.8	1	
1026		12.01	798	0.27	6.49	29.5		
1029		12.00	798	0.25	6.49	27.3		
1032		12.06	798	0.24	6.50	25.7		
1035		12.08	799	0.23	6.50	24.1		

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

SAMPLER: Sam Gruber
 Printed Name

Signature [Signature]

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04211017-02</u>	Sampling Method:	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	<u>Grab</u>	Other
Site: <u>Hansville CSWP</u>	DTW _____	CONTROL SETTINGS:			1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>0415-28</u>	TOS _____	Refill _____	One Well Volume _____		Other: _____		
Sample ID: <u>4/0 DOTC</u>	Intake _____	Discharge _____	_____ (liters)		Flow Setting: _____		
Date: <u>4/29/15</u>	BOS _____	Pressure _____	Total Volume Bailed _____		_____ (liters)		
Weather: <u>Sunny</u>	Total Depth _____	Flow _____					
Filtered? <u>Y</u> <input checked="" type="checkbox"/> N	Locked? <u>Y</u> <input checked="" type="checkbox"/> N	Water in Protector? <u>Y</u> N	Damage? <u>Y</u> 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	-	10.7	644	0.98	7.81	-162.9	31	-

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

Stabilization Parameters: pH/DO \pm 0.2, SpC \pm 10%, Temp \pm 0.5°C, Turb. \pm 10% or \leq 5

SAMPLER: Matt O'Hara
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method : <input checked="" type="checkbox"/> Dedicated	<input checked="" type="checkbox"/> 1.75" QED SamplePro	<input type="checkbox"/> Bail	<input type="checkbox"/> Peristaltic	<input checked="" type="checkbox"/> Grab	<input type="checkbox"/> Other
Site: Island County CSWF	DTW	Meter: MP-20	CONTROL SETTINGS:			
Well ID: 57	TOS	MP-20	1 ft water = 0.62L	1L = 0.24 gallons		
Sample ID: 0415-29	Intake	<input checked="" type="checkbox"/> YSI	Refill	One Well Volume (liters)	Other :	
Date: 4/29/15	BOS		Discharge	Total Volume Bailed (liters)	Flow Setting :	
Weather: Sunny ~ 70°F	Total Depth		Pressure			
Filtered? <input checked="" type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> N	Flow			
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.
1320		12.8	681	3.35	7.90	-62.4	3	-

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

SAMPLER: Matt O'Hara
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: DNR

Sample ID: 0415-30

Date: 4/29/15

Weather: Sunny

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

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) _____ Other : _____
Total Volume Bailed (liters) _____ Flow Setting : _____

<u>DTW</u>	<u>TOS</u>	<u>Intake</u>	<u>BOS</u>	<u>Total Depth</u>
------------	------------	---------------	------------	--------------------

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
<u>1340</u>	<u>-</u>	<u>11.3</u>	<u>847</u>	<u>2.75</u>	<u>7.33</u>	<u>-60</u>	<u>1</u>	<u>-</u>

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

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

SAMPLER: Mark O'Hara
Printed Name


[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method : <input type="checkbox"/> DTW <input checked="" type="checkbox"/> TOS <input checked="" type="checkbox"/> Intake <input checked="" type="checkbox"/> BOS <input type="checkbox"/> Total Depth	Meter: MP-20 YSI	Dedicated 1.75" QED SamplePro Bail Peristaltic <input checked="" type="checkbox"/> Grab Other	CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons One Well Volume (liters) _____ Other : _____ Total Volume Bailed (liters) _____ Refill _____ Discharge _____ Pressure _____ Flow _____					
Site: Island County CSWF	Well ID: WRI	Date: 4/29/15	Weather: Sunny ~ 70°F	Filtered? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Damage? <input type="checkbox"/> Y <input type="checkbox"/> N			
Sample ID: 0415-31	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	125 ml NaOH	125 ml Amber

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1400		11.0	847	3.91	7.26	-30.8	1	

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

SAMPLER: AK O'Hare
Printed Name

[Signature]
Signature

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/27					
Time	900					
Weather (sky or precip, temp)	Overcast 50°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	456	4.14	7.01			
Post Cal Reading	445	4.01	7.00	8.5	800, 100, 20, 0.1	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	Island County LF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/27/15					
Time	0900					
Weather (sky or precip, temp)	Overcast, showers, 50°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ¹⁰ 8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	445	3.56	6.85			
Post Cal Reading	445	4.01	7.01	10.0		
Discrepancy	None					
Calib. Successful?	yes					
Calibration by	ms wtkr					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSWF					


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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/28/15					
Time	0745					
Weather (sky or precip, temp)	Overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	437	4.04	6.90	100% p.p.m		
Post Cal Reading	445	4.01	7.00	100%		
Discrepancy	none					
Calib. Successful?	yes					
Calibration by	MA					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CGWF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/28/15					
Time	0745					
Weather (sky or precip, temp)	Overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or 8.5 ¹⁰	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	447	4.13	6.95	10.2		
Post Cal Reading	445	4.01	7.00		1000, 10, 0.2	
Discrepancy	None					
Calib. Successful?	Yes					
Calibration by						
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSWP					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/29					
Time	800					
Weather (sky or precip, temp)	partly cloudy 55°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	432	4.12	6.91			
Post Cal Reading	445	4.01	7.00			
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSWF					

* 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 04/29/15 PROJECT NAME Island County
TEMP 58 BARO 30.04" WIND 6E WEATHER Clear

SCS-FS LABOR	HOURS	OT				HOURS	OT
00001	4.0		00003			4.0	
00002	4.0						12.0 total
EQUIP, SVCS, MTLs, MLG	QTY	UNITS				QTY	UNITS
Service Truck	1	\$18.50 Hourly	SCS Field Services			12.0	\$222.00
Gem - 2000	1	\$185.00 Daily	SCS Field Services			1	\$185.00
INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	CH4 (%-LEL)	O2 (%-VOL)	Hexane (PPM)		
MODEL	(S/N) (RMA #)						
Gem 2 Nav	10772	15.0	15.0	20.9			
Gem 2 Nav	10772	50.0	35.0	20.8			
Time	Device	Flow	Blower Hours.	Amps	Condensate		
0915	BL 1		67982.1	3.6 A			
0920	BL 2 FL		90336.0	3.8 A	101.78"		

SUMMARY

0400 Left Tacoma and traveled to Island County.
0630 Arrived onsite and calibrated my Gem.
0640 Began the monitoring of the Hwy 20 perimeter probes.
0830 Recalibrated my Gem for the monitoring of the wellfield.
0910 Completed the wellfield and began the monitoring of the BFS.
0925 Completed the BFS and monitored GP-30.
0950 Completed post calibrations
1030 Checked the wellfield and the BFS for OM&M, everything looks good right now.
1145 Caught the Ferry back to Port Townsend.
1515 Arrive back in Tacoma.
1600 Complete paperwork and upload data.

PREPARED BY: Brad Beach ACCEPTED BY: _____

SCS FIELD SERVICES

DAILY LOG

JOB NO. 04207033.08 **TASK NO.** 1, 2, 3 **DATE** 04/30/15 **PROJECT NAME** Island County
TEMP 56 **BARO** 30.09" **WIND** 4E **WEATHER** Clear

SCS-FS LABOR		HOURS	OT			HOURS	OT
00001		4.0		00003		4.0	
00002		4.0					12.0 total
EQUIP, SVCS, MTLs, MLG		QTY	UNITS			QTY	UNITS
Service Truck		1	\$18.50 Hourly	SCS Field Services		12.0	\$222.00
Gem - 2000		1	\$185.00 Daily	SCS Field Services		1	\$185.00
INSTRUMENT CALIBRATION (CAL. GAS)			CH4 (%-VOL)	CH4 (%-LEL)	O2 (%-VOL)	Hexane (PPM)	
MODEL	(S/N) (RMA #)						
Gem 2 Nav	10772		15.0	15.0	20.9		
Gem 2 Nav	10772		50.0	35.0	20.8		
Time	Device	Flow	Blower Hours.	Amps	Condensate		
0915 0920	BL 1 BL 2 FL				101.78"		

SUMMARY

0400 Left Tacoma and traveled to Island County.

0800 Ferry cancellation arrived at Island County 2 hours late.

0800 Calibrate to 15% and complete the monitoring of the perimeter probes.

0920 Complete the perimeter probes and make adjustments to wellfield per Eric's recommendations.

0945 Complete the wellfield adjustments.

1000 Try to reprogram the timer, unsuccessfully. Took old timer and manual with me so I can study how to change settings.

1145 Caught the Ferry back to Port Townsend.

1515 Arrive back in Tacoma

1600 Complete paperwork and upload data.

PREPARED BY: Brad Beach

ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 04/29/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 6 MPH Wind Direction: E Barometric Pressure: 30.04"Hg

Air Temperature: 58 °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. 10772

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

Time	CH4	CO2	O2
0830	50.0	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0950	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: 04/29/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 6 MPH Wind Direction: E Barometric Pressure: 30.04"Hg

Air Temperature: 58 °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. 10772

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

Time	CH4	CO2	O2
0630	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0825	15.1	14.9	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: 04/30/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 4 MPH Wind Direction: E Barometric Pressure: 30.09"Hg

Air Temperature: 56 °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. 10772

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

Time	CH4	CO2	O2
0800	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0955	15.2	14.9	21.0

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

SCS ENGINEERS

July 13, 2015

File No. 04207033.08

**Subject: Third Quarter 2015 Groundwater Monitoring Event
Coupeville Solid Waste Facility, Island County, Washington**

Sampling Dates: July 6-10, 2015

Personell: Sam Graber

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells N3S (0715-08) and E1D (0715-28).
- Water level elevations were measured at monitoring wells W1S on July 6, 2015, and N4S, on July 7, 2015.
- Meters were calibrated daily prior to sampling.
- A new pump was installed at monitoring well E2D on July 8, 2015 and it was sampled on July 10, 2015.
- Split samples were collected for VOC analysis at E2D, E2S, and E4D and sent to TestAmerica of Tacoma, Washington for comparison.

Date Sampled	Sample Number	Well
7/6/2015	0715-01	W1D
7/6/2015	0715-02	DOT
7/6/2015	0715-03	N5D
7/6/2015	0715-04	N5S
7/6/2015	0715-05	SE1S
7/6/2015	0715-06	SE1D
7/7/2015	0715-07	N3S
7/7/2015	0715-08	N3S (dup)
7/7/2015	0715-09	N3D
7/7/2015	0715-10	N1D
7/7/2015	0715-11	N1SR
7/7/2015	0715-12	S11D
7/7/2015	0715-13	S11S
7/8/2015	0715-14	E4S
7/8/2015	0715-15	C1S
7/8/2015	0715-16	N2D
7/8/2015	0715-17	N2S
7/8/2015	0715-18	S7
7/8/2015	0715-19	DNR

Date Sampled	Sample Number	Well
7/8/2015	0715-20	W2S
7/9/2015	0715-21	NE1D
7/9/2015	0715-22	NE1S
7/9/2015	0715-23	E3D
7/9/2015	0715-24	E4D
7/9/2015	0715-25	S10S
7/9/2015	0715-26	WR1
7/10/2015	0715-27	E1D
7/10/2015	0715-28	E1D (dup)
7/10/2015	0715-29	E1S
7/10/2015	0715-30	E2S
7/10/2015	0715-31	STP
7/10/2015	0715-32	E2D

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF			DTW	Meter: <u>MP-20</u>	CONTROL SETTINGS:				
Well ID: <u>W1D</u>			TOS	YSI	Refill	1 ft water = 0.62L		1L = 0.24 gallons	
Sample ID: <u>0715-01</u>			Intake		Discharge	One Well Volume (liters)		Other:	
Date: <u>7/6/15</u>			BOS		Pressure	Total Volume Bailed (liters)		Flow Setting:	
Weather: <u>Sunny 70°F</u>			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):

W15 BTW
109.65

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1030	begin purge							
1035		11.96	1002	8.20	6.96	204		
1040		11.47	1006	6.86	7.16	139	2	
1043		11.36	1004	5.37	7.28	48		
1046		11.26	1001	4.48	7.36	-41		
1049		11.24	994	3.44	7.51	-41		
1052		11.21	996	2.67	7.53	-62		
1055		11.12	989	2.24	7.71	-70	1	
1059	140.05	11.13	996	1.95	7.75	-78		
1102		11.10	991	1.63	7.79	-86		
1105		11.09	990	1.38	7.82	-92		
1108		11.11	996	1.24	7.83	-96	1	

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

SAMPLER: [Signature]
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u> 1.75" QED SamplePro <u>Bail</u> Peristaltic <u>Grab</u> Other		
Site: Island County CSWF	Meter: <u>MP-20</u> YSI	CONTROL SETTINGS:	
Well ID: <u>0715-02</u>		1 ft water = 0.62L	1L = 0.24 gallons
Sample ID: <u>DGT</u>		Refill _____	One Well Volume _____ (liters)
Date: <u>7/6/15</u>		Discharge _____	Other: _____
Weather: <u>Sunny 75°F</u>		Pressure _____	Total Volume Bailed _____ (liters)
		Flow _____	Flow Setting: _____
Filtered? Y <u>N</u>	Locked? Y <u>N</u>	Water in Protector? Y <u>N</u>	Damage? Y <u>N</u>
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6
	125 ml NaOH		1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
<u>1210</u>		<u>13.75</u>	<u>654</u>	<u>0.71</u>	<u>7.41</u>	<u>-115</u>	<u>1</u>	

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]
Signature

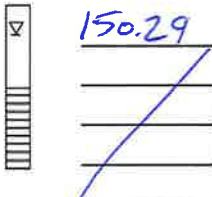
SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF		Meter: <u>MP-20</u>	CONTROL SETTINGS:			
Well ID: <u>N5D</u>		YSI	1 ft water = 0.62L	1L = 0.24 gallons		
Sample ID: <u>0715-03</u>		Refill: <u>11</u>	One Well Volume (liters): _____	Other: _____		
Date: <u>7/6/15</u>		Discharge: <u>19</u>	Total Volume Bailed (liters): _____	Flow Setting: _____		
Weather: <u>Sunny 70°F</u>	BOS	Pressure: <u>110</u>	Flow: <u>≈ 175 mL/min</u>			
Total Depth						
Filtered? <input checked="" type="radio"/> N	Locked? <input checked="" type="radio"/> N	Water in Protector? <input checked="" type="radio"/> N	Damage? <input checked="" type="radio"/> 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.
1335	<u>base</u>	<u>purse</u>						
1345		12.04	1463	2.28	7.30	-11	1	
1350		11.53	1464	1.12	7.30	74		
1353		11.50	1479	0.93	7.30	64		
1356		11.42	1476	0.82	7.30	-49		
1359	<u>150.30</u>	11.49	1478	0.76	7.30	-38		
1402		11.42	1474	0.74	7.30	-34		
1406		11.45	1467	0.71	7.30	-30	1	

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

SAMPLER: _____

Printed Name

Sam Grabar

Signature

[Signature]

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2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County CSWF</u>	DTW: <u>150.52</u> TOS: _____ Intake: _____ BOS: _____ Total Depth: _____	Meter: <u>MP-20</u> YSI	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons
Well ID: <u>N55</u>			Refill: <u>15</u>	One Well Volume (liters): _____	Other: _____	
Sample ID: <u>0715-04</u>			Discharge: <u>15</u>			Flow Setting: _____
Date: <u>7/6/15</u>			Pressure: <u>85</u>	Total Volume Bailed (liters): _____		
Weather: <u>Sunny 75°F</u>			Flow: <u>200 mL/min</u>			

Filtered? Y N Locked? Y N Water in Protector? 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.
1430	begin	purge						
1455		11.72	774	6.92	7.45	135	1	
1500		11.28	758	1.74	7.35	138		
1503		11.08	754	1.55	7.35	138		
1506		11.08	756	1.21	7.55	137		
1504	150.55	11.10	759	1.16	7.35	137		
1512		11.09	750	1.13	7.35	137	1	
1515		11.03	759	1.10	7.35	137	1	
1519								
1521								

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

SAMPLER: Sam Graber
Printed Name

Signature [Signature]
Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
Site: Island County CSWF
Well ID: SEIS
Sample ID: 0715-05
Date: 7/16/15
Weather: Sunny 75°F

Sampling Method: Dedicated 1.75" QED SamplePro Bail
Meter: MP-20 CONTROL SETTINGS: YSI
DTW: 140.05
TOS
Intake
BOS
Total Depth

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Refill: 12
Discharge: 8
Pressure: 75
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 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

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1640								
1645		11.62	837	6.88	7.44	175	5	
1650		11.42	842	6.12	7.44	177		
1653		11.30	837	6.01	7.45	179		
1656		11.26	836	5.93	7.45	180		
1659		11.18	840	5.78	7.45	181		
1702	140.20	11.13	837	5.63	7.45	182		
1705		11.14	842	5.47	7.45	183	3	

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

SAMPLER:

Printed Name

Sam Graber

Signature

Sam Graber

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Groundwater Sampling Data Sheet

Project #: 04207033.08

Sampling Method: Dedicated

1.75" QED SamplePro

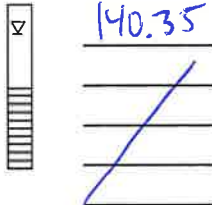
Bail

Peristaltic

Grab

Other

Site: Island County CSWF



DTW

Meter:

CONTROL SETTINGS:

1 ft water = 0.62L

1L = 0.24 gallons

Well ID: SEID

TOS

MP-20

Refill 13.5

One Well Volume (liters)

Other: _____

Sample ID: 0715-06

Intake

YSI

Discharge 6.5

Flow Setting: _____

Date: 7/6/15

BOS

Pressure 90

Total Volume Bailed (liters)

Weather: Sunny 75°F

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.
1735								
1740		14.08	937	8.97	7.78	177	1	
1743		12.54	941	8.37	7.68	181		
1746		12.50	937	7.56	7.57	182		
1749	140.82	12.44	938	4.66	7.55	111		
1752		12.39	935	3.48	7.54	-4		
1755		12.19	934	2.53	7.66	-84		
1758	140.85	12.15	935	2.01	7.72	-109		
1801		12.10	935	1.76	7.75	-114		
1804		12.04	932	1.50	7.77	-115	3	
1807		11.98	938	1.37	7.78	-113	2	

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

SAMPLER: Sam Graber

Printed Name

Signature

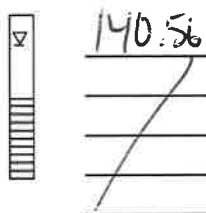
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2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF	DTW	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons		
Well ID: <u>N35</u>	TOS	YSI	Refill: <u>9</u>	Discharge: <u>6</u>	Pressure: <u>75</u>	Flow: <u>250 mL/min</u>	One Well Volume (liters): _____	
Sample ID: <u>0715-07</u>	Intake						Total Volume Bailed (liters): _____	
Date: <u>7/7/15</u>	BOS						Other: _____	
Weather: <u>Overcast 65°F</u>	Total Depth						Flow Setting: _____	
Filtered? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>					
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):

Dup taken as
0715-08

* Dirt/grunge in sample tubing
some got in sampler

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
945								
952	begin purge							
957		12.85	1147	1.78	7.03	-132		
1000		12.78	1116	4.32	7.06	-34	2	
1003		13.15	1109	4.91	7.07	5		
1006		13.25	1106	5.05	7.08	21		
1009	14070	13.22	1109	5.15	7.08	25		
1012		13.28	1113	5.18	7.08	35		
		13.32	1111	5.20	7.09	40	2	

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

SAMPLER: Sam Corbett
Printed Name

[Signature]
Signature

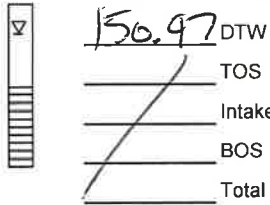
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2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF		Meter: <u>MP-20</u>	CONTROL SETTINGS:			
Well ID: <u>N3D</u>		YSI	1 ft water = 0.62L	1L = 0.24 gallons		
Sample ID: <u>0715-09</u>	TOS	Refill: <u>8.5</u>	One Well Volume (liters)		Other: _____	
Date: <u>7/7/15</u>	Intake	Discharge: <u>6.5</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Weather: <u>overcast 70°F</u>	BOS	Pressure: <u>80</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Filtered? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Total Depth: _____	Flow: <u>250 mL/min</u>				
Locked? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
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):

Dist, grunge in sample tubing

Some set in samples

DTW @ N45 = 124.23

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1112	<i>besin pwr.e</i>							
1117		15.03	639	6.60	6.72	127		
1122		14.50	630	6.14	6.76	132	2	
1125		14.43	633	5.80	6.81	132		
1128		14.26	632	4.00	6.98	126		
1131		14.12	642	2.91	7.12	117		
1134		13.96	644	2.00	7.31	38		
1137	<i>151.08</i>	13.91	643	1.79	7.41	61		
1140		13.90	643	1.52	7.45	49		
1143		13.98	645	1.32	7.53	26	2	

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF		Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons		
Well ID: <u>NID</u>		YSI	Refill: <u>8</u>	Discharge: <u>7</u>	Pressure: <u>90</u>	Flow: <u>200 ml/min</u>	One Well Volume (liters): _____	Other: _____
Sample ID: <u>0715-10</u>		TOS					Total Volume Bailed (liters): _____	Flow Setting: _____
Date: <u>7/7/15</u>		Intake						
Weather: <u>partly cloudy 70°F</u>		BOS						
Filtered? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Damage? <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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.
1405								
1415		15.24	155	7.65	7.45	144		
1420		14.17	155	5.65	7.28	123	1	
1423		14.20	156	4.12	7.23	80		
1426		14.21	155	2.98	7.20	23		
1429		14.23	155	2.05	7.18	-4		
1432		14.17	155	1.53	7.18	-11		
1455	13200	14.22	155	1.33	7.17	-16	1	

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

* Large hornets nest inside well protector cap

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

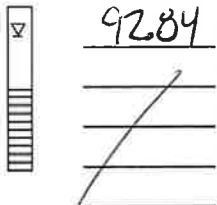
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2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>		Sampling Method: <u>Dedicated</u>		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: <u>Island County CSWF</u>			Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.24 gallons	
Well ID: <u>N152</u>	DTW		YSI	Refill	<u>9</u>	One Well Volume		Other: _____	
Sample ID: <u>0715-11</u>	TOS			Discharge	<u>6</u>	(liters)		Flow	
Date: <u>7/7/15</u>	Intake			Pressure	<u>55</u>	Total Volume Bailed		Setting: _____	
Weather: <u>Sunny 70°F</u>	BOS			Flow	<u>200 mL/min</u>	(liters)			
Filtered? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Damage? <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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):

1505

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1505								
1510	begin	15.41	456	7.22	6.92	132		
1515		14.51	435	5.35	6.61	146	0	
1518		14.32	422	4.50	6.42	161		
1521	93.12	14.36	421	4.22	6.39	167		
1524		14.32	420	4.05	6.38	170		
1527		14.33	419	3.95	6.37	172		
1530	93.15	14.26	420	3.85	6.37	175	1	

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

SAMPLER: Sam Guabar
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: Island County CSWF
 Well ID: 5110
 Sample ID: 0715-12
 Date: 7/7/15
 Weather: Sunny 75°F

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

Meter: MP-20 YSI
 CONTROL SETTINGS:
 Refill: 10
 Discharge: 10
 Pressure: 90
 Flow: 200 mL/min

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

DTW: 147.05
 TOS
 Intake
 BOS
 Total Depth

Filtered? Y N Locked? 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):

pump discharge line needs permanent tubing replacement. used 1/4" poly as female piece this time.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1625	begin	purse.						
1635		11.41	937	7.33	7.53	162		
1640		11.12	923	4.33	7.57	-25	6	
1643		11.01	925	2.72	7.58	-44		
1646	149.65	10.97	925	2.85	7.59	-59		
1649		10.94	931	2.64	7.61	-69		
1652		10.95	935	2.30	7.60	-80		
1655	149.85	10.93	933	2.16	7.63	-90	5	

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

SAMPLER: Sam Graber
 Printed Name

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: MP-20	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: 5115	DTW: <u>135.02</u>	Refill	One Well Volume		Other:	
Sample ID: 0715-13		Discharge	(liters)		Flow	
Date: 7/7/15		Pressure	Total Volume Bailed		Setting:	
Weather: Sunny 70°F		Flow	(liters)			
Filtered? Y <input checked="" type="radio"/> N	Locked? Y <input checked="" type="radio"/> N	Water in Protector? Y <input checked="" type="radio"/> N	Damage? Y <input checked="" type="radio"/> 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					



135.02 DTW
~~_____~~ TOS
~~_____~~ Intake
~~_____~~ BOS
~~_____~~ Total Depth

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1730	<i>begin pulse</i>							
1735		11.22	915	6.12	6.99	-153	1	
1740		11.16	914	3.03	7.20	-169		
1743	135.70	11.10	912	1.90	7.40	-172		
1746		11.30	913	1.43	7.51	-167		
1749		11.40	906	1.19	7.55	-162		
1752		11.39	902	1.08	7.56	-157		
1755	135.43	11.31	908	0.96	7.57	-150	1	

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

SAMPLER: Sam Graber
 Printed Name

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Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: ~~E45~~ E45

Sample ID: 0715-14

Date: 7/8/15

Weather: _____

Filtered? Y 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

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

Meter: MP-20 YSI CONTROL SETTINGS: Refill 12 Discharge 8 Pressure 80 Flow 200 mL/min

1 ft water = 0.62L 1L = 0.24 gallons

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1035								
1042	begin purge	12.06	916	7.12	7.24	227	1	
1047		11.56	1042	3.60	7.05	227		
1050		11.47	1068	2.91	7.02	225		
1053		11.40	1097	2.48	7.00	224		
1056		11.39	1089	2.34	7.00	223		
1059	141.85	11.37	1096	2.17	7.00	222		
1102		11.37	1108	2.04	6.99	221	1	
1105								

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]
 Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08
 Site: Island County CSWF
 Well ID: C15
 Sample ID: 0715-15
 Date: 7/8/15
 Weather: Sunny 70°F

Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other
 Meter: MP-20 YSI
 CONTROL SETTINGS:
 Refill 12 One Well Volume _____ Other: _____
 Discharge 8 (liters)
 Pressure 55 Total Volume Bailed _____
 Flow 250 ml/min (liters)

DTW 91.65
 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.
1037								
1042	begin	purse						
1047		14.23	1003	4.62	6.51	214	1	
1150		14.26	1017	3.57	6.50	209		
1153		14.21	1017	3.50	6.49	207		
1156		14.18	1024	3.44	6.50	206		
1159	92.15	14.21	1022	3.42	6.50	204		
1202	92.25	14.22	1024	3.40	6.50	202		
		14.22	1023	3.35	6.50	201	1	

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

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

SAMPLER: Sam Gubler
Printed Name

[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08 Sampling Method: Dedicated 1.75" QED SamplePro Bail Peristaltic Grab Other

Site: Island County CSWF DTW: 148.82 Meter: MP-20 CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Well ID: N2D TOS: / YSI MP-20 Refill: 11 One Well Volume: _____ Other: _____

Sample ID: 0715-16 Intake: / Discharge: 9 (liters)

Date: 7/8/15 BOS: / Pressure: 30 Total Volume Bailed: _____ Flow Setting: _____

Weather: Sunny 65°F Total Depth: _____ Flow: 150 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.
1340	begin	purse						
1345		15.56	1196	1.10	6.94	-142		
1350		15.61	1196	0.89	6.94	-101	1	
1353		15.68	1202	0.84	6.94	-73		
1356		15.79	1207	0.81	6.94	-26		
1359		15.81	1213	0.78	6.94	-7		
1402		15.80	1208	0.77	6.94	5		
1405	148.82	15.86	1210	0.75	6.94	19	1	

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

SAMPLER: SAM Graber
Printed Name

[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF		Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.24 gallons
Well ID: <u>N25</u>		YSI	Refill: <u>26</u>	One Well Volume (liters)		Other: _____	
Sample ID: <u>0715-17</u>			Discharge: <u>4</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Date: <u>7/8/15</u>			Pressure: <u>100</u>	Flow: <u>50 mL/min</u>			
Weather: <u>Sunny 70°F</u>		Total Depth: <u>143</u>					
Filtered? Y <input checked="" type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/>				
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.
1443	begin	purge						
1447		20.37	161	5.62	6.80	141		
1452	139.00	18.86	161	5.40	6.81	151	4	
1455		18.63	161	5.31	6.82	154		
1458		18.50	160	5.27	6.82	156		
1503		20.09	161	5.47	6.85	133		
1506		19.29	161	5.40	6.82	148		
1509	140.00	18.41	161	5.15	6.82	158		
1512		18.39	160	5.06	6.83	160	5	

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

** Low Flow **

spider webs in & buss
in sample tubing

1500: tried to clear sample tubing of debris

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

SAMPLER: Sam Gunder
Printed Name


[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method :	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	<u>Grab</u>	Other
Site: <u>Island County CSWF</u>	 <u>NA</u>	DTW	Meter:	CONTROL SETTINGS:			
Well ID: <u>57</u>		TOS	<u>MP-20</u>	Refill	1 ft water = 0.62L		1L = 0.24 gallons
Sample ID: <u>0715-13</u>		Intake	YSI	Discharge	One Well Volume (liters)		Other : _____
Date: <u>7/8/15</u>		BOS		Pressure	Total Volume Bailed (liters)		Flow Setting : _____
Weather: <u>Sunny 70°F</u>		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.
<u>1610</u>		<u>21.69</u>	<u>710</u>	<u>1.46</u>	<u>7.87</u>	<u>98</u>	<u>4</u>	

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: Dedicated	1.75" QED SamplePro	Bail	Peristaltic	<u>Grab</u>	Other
Site: Island County CSWF	Meter: MP-20	CONTROL SETTINGS:		1 ft water = 0.62L 1L = 0.24 gallons		
Well ID: <u>0NR</u>	YSI	Refill _____	One Well Volume (liters) _____		Other: _____	
Sample ID: <u>0715-19</u>		Discharge _____	Total Volume Bailed (liters) _____		Flow Setting: _____	
Date: <u>7/8/15</u>		Pressure _____				
Weather: <u>Sunny 70°F</u>		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					



DTW
TOS
Intake
BOS
Total Depth

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1650		21.04	858	2.27	7.41	-36	1	

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

SAMPLER: _____

Printed Name

Sam Gruber

Signature

[Signature]

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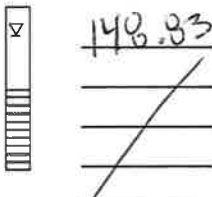
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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF	Meter: <u>MP-20</u> YSI	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons		
Well ID: <u>W25</u>		Refill <u>12</u>	Discharge <u>8</u>	Pressure <u>75</u>	Flow <u>200 mL/min</u>	One Well Volume (liters) _____	Other: _____
Sample ID: <u>0715-20</u>						Total Volume Bailed (liters) _____	Flow Setting: _____
Date: <u>7/9/15</u>							
Weather: <u>Sunny 70°F</u>							



DTW
~~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			

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1725	<u>broken</u>	<u>purse</u>						
1730		13.70	843	7.54	7.65	105	1	
1735		12.15	902	7.25	7.33	120		
1738		11.43	920	6.35	7.14	133		
1741	140.93	11.35	919	6.14	7.11	140		
1744		11.21	917	6.09	7.10	144		
1747		11.15	924	6.07	7.09	150		
1750		11.14	919	6.01	7.09	151	1	

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

SAMPLER: Sam Corubar
Printed Name

[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	150.52	Meter: CONTROL SETTINGS:	1 ft water = 0.62L		1L = 0.24 gallons		
Well ID: <u>NE1D</u>	DTW	Refill: <u>23</u>	One Well Volume _____		Other: _____		
Sample ID: <u>0715-21</u>	TOS	Discharge: <u>7</u>	(liters)		Flow Setting: _____		
Date: <u>7/9/15</u>	Intake	Pressure: <u>110</u>	Total Volume Bailed _____		(liters)		
Weather: <u>partly cloudy 70°F</u>	BOS	Flow: <u>75 ml/min</u>					
Filtered? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Total Depth						
Locked? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Damage? <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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.
935								
946	<u>begin purge</u>							
951		17.50	661	6.58	6.94	213	1	
954		17.33	659	6.33	6.93	207		
957		16.24	652	5.54	7.01	203		
1000	<u>158.87</u>	14.82	646	3.74	7.15	198		
1003		14.66	633	2.46	7.26	188		
1006		14.40	635	1.75	7.33	75 167		
1009	<u>158.90</u>	14.18	637	1.43	7.38	152		
		14.12	637	1.24	7.42	123	2	

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

SAMPLER: Sam Graber
Printed Name

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Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF			DTW: 144.88	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L 1L = 0.24 gallons		
Well ID: <u>NE15</u>			TOS	YSI	Refill: <u>17</u>	One Well Volume (liters)		Other: _____	
Sample ID: <u>0715-22</u>			Intake		Discharge: <u>13</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Date: <u>7/9/15</u>			BOS		Pressure: <u>100</u>				
Weather: <u>partly cloudy 70°F</u>			Total Depth		Flow: <u>100 mL/min</u>				
Filtered? Y <u>(N)</u>	Locked? Y <u>(N)</u>	Water in Protector? Y <u>(N)</u>	Damage? Y <u>(N)</u>						
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):

bubbles in water stream

MS/MSD collected here

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1037	begin phase							
1042		17.16	557	7.60	7.74	158	i	
1047		15.02	711	6.42	7.39	177		
1050		14.47	729	5.57	7.22	176		
1053		14.36	727	5.50	7.20	176		
1056		14.29	727	5.47	7.19	175		
1059		14.15	734	5.50	7.19	176		
1102	143.05	14.11	734	5.48	7.19	177	2	

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County CSWF

Well ID: E3D

Sample ID: 0715-23

Date: 7/9/15

Weather: Sunny 70°F

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

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 21 One Well Volume _____ Other: _____
 Discharge 9 (liters) _____ Flow Setting: _____
 Pressure 95 Total Volume Bailed _____
 Flow 150 mL/min (liters) _____



151.38 DTW
 TOS
 Intake
 BOS
 Total Depth

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

1300 begin purge

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1305		16.26	707	8.04	7.95	157	1	
1310		15.94	713	7.93	7.86	164		
1313		16.24	714	7.86	7.81	168		
1316		16.13	714	7.91	7.78	170		
1319		16.19	714	7.89	7.76	172		
1322		16.38	714	7.66	7.74	173		
1325	151.40	16.22	717	6.98	7.69	175	1	
1329		16.05	713	6.00	7.64	178		
1332		16.07	719	5.30	7.62	178		
1335		14.40	714	4.75	7.62	169		
1338		14.06	719	3.80	7.64	151		
1341		14.50	717	3.22	7.65	132		
1344		14.80	714	2.80	7.67	106		
1347		14.78	718	2.61	7.68	38	1	

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

SAMPLER: Sam Gratzar
 Printed Name

[Signature]
 Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County CSWF			153.99 DTW	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L 1L = 0.24 gallons		
Well ID: <u>E40</u>			/ TOS	YSI	Refill: <u>12</u>	One Well Volume (liters)		Other: _____	
Sample ID: <u>0715-24</u>			/ Intake		Discharge: <u>8</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Date: <u>7/9/15</u>			/ BOS		Pressure: <u>100</u>				
Weather: <u>Sunny 70°</u>			/ Total Depth		Flow: <u>200 ml/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
1425								
1432		15.23	547	8.27	8.19	139	80	
1437		13.25	548	5.40	8.06	-120		
1440		12.84	531	2.15	8.02	-143		
1443								
1446		12.71	523	1.41	8.08	-210	7	
1448		12.61	523	1.13	8.12	-217		
1452	154.21	12.52	524	1.01	8.12	-220	5	

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

split sample sent to IA as

CSWF - 070915-01

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

SAMPLER: Sam Gruber
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>		1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF		Meter: <u>MP-20</u>		CONTROL SETTINGS:		1 ft water = 0.62L 1L = 0.24 gallons		
Well ID: <u>S105</u>		YSI		Refill: <u>11</u>	One Well Volume _____		Other: _____	
Sample ID: <u>0715-25</u>				Discharge: <u>9</u>	(liters)		Flow Setting: _____	
Date: 7/14/15 <u>7/19/15</u>				Pressure: <u>70</u>	Total Volume Bailed _____			
Weather: <u>Sunny 75°F</u>				Flow: <u>100 mL/min</u>	(liters)			
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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						



136.19
 DTW
 TOS
 Intake
 BOS
 Total Depth

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

- well says S1
- air coming into sample tubing, because it cannot get a good seal due to gas hook up at in the way
- MS/MSD taken here.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1540		20.21	1115	7.06	7.60	3	5	
1545		18.62	1278	6.25	7.25	54		
1548		18.35	1352	4.50	6.97	79		
1551	176.22	18.16	1358	3.60	6.98	87		
1554		18.22	1366	3.10	6.95	93		
1557		18.18	1353	2.74	6.93	96		
1600		18.09	1368	2.38	6.82	101		
1603	136.20	18.13	1367	2.14	6.81	102		
1606		18.10	1367	1.97	6.81	107		
1609		18.12	1367	1.90	6.80	109	3	

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

SAMPLER: Sam Graber
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08
Site: Island County CSWF
Well ID: WR1
Sample ID: 0713-26
Date: 7/9/15
Weather: Sunny 70°F

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

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

Meter: MP-20 (circled) YSI
CONTROL SETTINGS:
1 ft water = 0.62L 1L = 0.24 gallons
Refill: _____ One Well Volume (liters): _____ Other: _____
Discharge: _____
Pressure: _____ Total Volume Bailed (liters): _____ Flow Setting: _____
Flow: _____

DTW ~~/~~ TOS ~~/~~ Intake ~~/~~ BOS ~~/~~ Total Depth ~~/~~

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1700		16.15	819	3.01	7.23	200	2	

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

SAMPLER: Sam Gubar
Printed Name

(Signature)
Signature


SCS ENGINEERS

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(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	 DTW <u>138.50</u> TOS _____ Intake _____ BOS _____ Total Depth _____	Meter: <u>MP-20</u> YSI		CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons		
Well ID: <u>EID</u>		Refill <u>9</u> Discharge <u>6</u> Pressure <u>95</u> Flow <u>200 mL/min</u>	One Well Volume _____ (liters) Total Volume Bailed _____ (liters)		Other: _____ Flow Setting: _____	
Sample ID: <u>0715-27</u>		Filtered? Y <input checked="" type="checkbox"/> N Locked? Y <input checked="" type="checkbox"/> N Water in Protector? Y <input checked="" type="checkbox"/> N Damage? Y <input checked="" type="checkbox"/> N				
Date: <u>7/10/15</u>						
Weather: <u>cloudy 65°F</u>						
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):

Dup taken as 0715-28

bubble in sample tubing interfering w/ DO #'s.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
905	<u>60gpm</u>	<u>pearce</u>						
910		<u>14.89</u>	<u>1398</u>	<u>7.70</u>	<u>7.35</u>	<u>167</u>	<u>1</u>	
915		<u>13.14</u>	<u>151</u>	<u>7.77</u>	<u>7.31</u>	<u>167</u>		
918		<u>12.82</u>	<u>160</u>	<u>7.56</u>	<u>7.33</u>	<u>169</u>		
921		<u>12.64</u>	<u>161</u>	<u>7.50</u>	<u>7.33</u>	<u>170</u>		
924	<u>138.80</u>	<u>12.69</u>	<u>162</u>	<u>7.25</u>	<u>7.24</u>	<u>172</u>		
927		<u>12.68</u>	<u>162</u>	<u>6.28</u>	<u>7.21</u>	<u>174</u>		
930	<u>138.50</u>	<u>12.60</u>	<u>163</u>	<u>5.24</u>	<u>7.16</u>	<u>175</u>	<u>1</u>	

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

SAMPLER: Sam Gamber
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.24 gallons
Well ID: <u>E15</u>	YSI	Refill: <u>13</u>	One Well Volume (liters)		Other: _____	
Sample ID: <u>0713-29</u>		Discharge: <u>7</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Date: <u>7/10/15</u>		Pressure: <u>75</u>				
Weather: <u>cloudy 65°F</u>		Flow: <u>230 mL/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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				



138.76 DTW
 TOS
 Intake
 BOS
 Total Depth

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1010	begin purge							
1020		15.95	1149	6.07	6.94	177		
1025		12.53	1123	6.56	6.95	180	1	
1028		12.34	1112	6.43	6.93	181		
1031		12.30	1117	6.51	6.93	183		
1034		12.28	1110	6.33	6.93	183		
1037		12.08	1114	6.32	6.93	185		
1040	138.93	12.07	1119	6.27	6.93	186	1	

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

~~E2D well replacement from top of stack up~~

~~TD: 230 from top of stack up~~

~~bottom of pump 5 ft above bottom of well.~~

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

SAMPLER: Sam Graber
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L		1L = 0.24 gallons
Well ID: <u>E25</u>	YSI	Refill: <u>9</u>	One Well Volume (liters)		Other: _____	
Sample ID: <u>0715-30</u>		Discharge: <u>6</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Date: <u>7/10/15</u>		Pressure: <u>75</u>				
Weather: <u>Cloudy 70°F</u>		Flow: <u>250 mL/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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					



138.39 DTW
 TOS
 Intake
 BOS
 Total Depth

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

TA split sample taken as CSWF-071015-02

air in sample tube interfering w/ DO.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
<u>1130</u>		<u>13.07</u>	<u>1317</u>	<u>6.58</u>	<u>7.02</u>	<u>194</u>	<u>13</u>	
<u>1135</u>		<u>13.59</u>	<u>1339</u>	<u>4.07</u>	<u>6.89</u>	<u>186</u>		
<u>1138</u>		<u>13.63</u>	<u>1336</u>	<u>3.81</u>	<u>6.89</u>	<u>185</u>		
<u>1141</u>		<u>13.70</u>	<u>1334</u>	<u>2.87</u>	<u>6.88</u>	<u>195</u>		
<u>1144</u>		<u>13.65</u>	<u>1327</u>	<u>2.99</u>	<u>6.88</u>	<u>194</u>		
<u>1147</u>		<u>13.69</u>	<u>1335</u>	<u>2.64</u>	<u>6.88</u>	<u>183</u>		
<u>1150</u>	<u>138.30</u>	<u>13.64</u>	<u>1333</u>	<u>2.20</u>	<u>6.88</u>	<u>193</u>	<u>3</u>	

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

SAMPLER: Sam Grabar
 Printed Name

[Signature]
 Signature

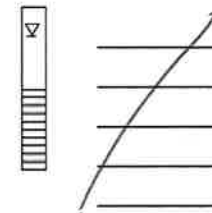
SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: Dedicated 1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF		Meter: MP-20	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons
Well ID: STP		YSI	Refill _____	One Well Volume _____	Other: _____	
Sample ID: 0715-31		Intake	Discharge _____	(liters) _____	Flow _____	
Date: 7/10/15		BOS	Pressure _____	Total Volume Bailed _____	Setting: _____	
Weather: cloudy 70°F	Total Depth	Flow _____	(liters) _____			
Filtered? Y <input checked="" type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/>			
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.
1300		15.23	534	3.24	8.51	79	3	

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

SAMPLER: Sam Graber Signature: [Signature]

Printed Name

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <input checked="" type="checkbox"/> Dedicated <input checked="" type="checkbox"/> 1.75" QED SamplePro <input type="checkbox"/> Bail <input type="checkbox"/> Peristaltic <input type="checkbox"/> Grab <input type="checkbox"/> Other
Site: Island County CSWF	Meter: CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Well ID: E20	Refill: _____ One Well Volume (liters) _____ Other: _____
Sample ID: 0715-32	Discharge: _____
Date: 7/10/15	Pressure: _____ Total Volume Bailed (liters) _____ Flow Setting: _____
Weather: _____	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			



144.00

DTW
TOS
Intake
BOS
Total Depth

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1225	begin	purge.						
1320	148.93	14.50	177	2.75	6.78	114	3	
1325		14.44	179	2.35	6.80	113		
1328		14.32	179	2.40	6.80	113		
1331		14.13	180	2.54	6.82	117		
1334		14.01	180	2.15	6.81	121		
1337		14.00	180	2.50	6.83	124		
1340	148.93	13.98	180	2.75	6.83	127	1	

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

Performed extended purge to flush out new pump

TA split sampled as
CSWF-071015-03

* No sample tubing

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

SAMPLER: _____

Printed Name

Sam Gruber

Signature


SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method : Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County CSWF		DTW	Meter: CONTROL SETTINGS:	1 ft water = 0.62L		1L = 0.24 gallons	
Well ID:		TOS	MP-20	Refill	One Well Volume		Other :
Sample ID:		Intake	YSI	Discharge	(liters)		Flow
Date: 7/ /15		BOS		Pressure	Total Volume Bailed		Setting :
Weather:		Total Depth		Flow	(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.
Notes								

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

E2D well replacement

TD of well 230.00ft

From top of casing

bottom of pump 5 ft above

bottom of well

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

SAMPLER: _____
Printed Name

Signature

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/16/15					
Time	930					
Weather (sky or precip, temp)	Sunny, 70°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	1219	4.26	7.17	8.29		
Post Cal Reading	1413	4.01	7.00	8.5	806, 115, 25, 1	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	Island County CSWF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/7/15					
Time	900					
Weather (sky or precip, temp)	overcast 65°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 145	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	3.98	7.08	9.64		
Post Cal Reading	1413	4.01	7.00	8.50	811, 114, 24, 2	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
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)

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/8/15					
Time	1000					
Weather (sky or precip, temp)	cloudy 65°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	1421	3.93	6.99	8.57		
Post Cal Reading	1413	4.01	7.00	8.50	806, 114, 27,	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
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)

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/9/15					
Time	900					
Weather (sky or precip, temp)	cloudy 65°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 <u>800, 100, 20, <0.1</u>	
Pre-Cal Reading	1485	3.99	6.92	8.04		
Post Cal Reading	1413	4.01	7.00	8.50	797, 113, 24, 1	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	<u>MP20</u> / YSI 556			MicoTPW / <u>HACH2000</u>		
Calibration Location	I.C.					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/10/15					
Time	940					
Weather (sky or precip, temp)	overcast, slight mist					
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	1784	4.10	7.01	8.70		
Post Cal Reading	1413	4.01	7.00	8.50	800, 113, 26, 2	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	S. G.					
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. 04207033.08 **TASK NO.** 1,2,3 **DATE** 08/04/15 **PROJECT NAME** Island County
TEMP 68 **BARO** 29.78" **WIND** 2 S **WEATHER** Clear

SCS-FS LABOR		HOURS	OT			HOURS	OT
00001		4.0		00003		4.0	
00002		4.0					12.0 total
EQUIP, SVCS, MTLs, MLG		QTY	UNITS			QTY	UNITS
Service Truck		1	\$18.50 Hourly	SCS Field Services		12.0	\$222.00
Gem - 2000		1	\$185.00 Daily	SCS Field Services		1	\$185.00
INSTRUMENT CALIBRATION (CAL. GAS)				CH4 (%-VOL)	CH4 (%-LEL)	O2 (%-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		
0942	BL 1		68769.21	3.6A	102.35"		
0945	BL 2 FL		91498.60	0.0A			

SUMMARY

0400 Left Tacoma and traveled to Island County.
0720 Began the monitoring of the perimeter probes along highway 20.
0830 Began the monitoring of the perimeter probes within the property boundary.
0900 Began the monitoring of the wellfield.
0945 Began the monitoring off the BFS.
1000 Continue monitoring perimeter probes.
1100 Email Eric all of the wellfield and BFS readings.
1300 Catch the ferry back to Port Townsend.
1500 Arrive back in Tacoma.
1600 Complete my paperwork for the day.

PREPARED BY: Brad Beach ACCEPTED BY: _____

SCS FIELD SERVICES

DAILY LOG

JOB NO. 04207033.08 TASK NO. 1,2,3 DATE 08/05/15 PROJECT NAME Island County
TEMP 63 BARO 29.85" WIND 1 S WEATHER Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
00001	3.0		00003	3.0	
00002	3.0				7.5 total
EQUIP, SVCS, MTLs, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	\$18.50 Hourly	SCS Field Services	9.0	\$166.50
Gem - 2000	1	\$185.00 Daily	SCS Field Services	1	\$185.00
INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	CH4 (%-LEL)	O2 (%-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
0000	BL 1		68769.21	3.6A	102.35"
0000	BL 2		91498.60	0.0A	
	FL				

SUMMARY

0400 Left Tacoma and traveled to Island County.
0720 Began the monitoring of the perimeter probes that were left.
0815 Began the monitoring of the structures and buildings.
0900 Talk to Brian about what was found during this visit.
1000 Catch the ferry back to Port Townsend.
1200 Arrive back in Tacoma.
1300 Complete my paperwork for the day.

PREPARED BY: Brad Beach ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 08/04/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: S Barometric Pressure: 29.78"Hg

Air Temperature: 68 °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. 11614

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

Time	CH4	CO2	O2
0855	50.0	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0950	49.9	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: 08/04/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: S Barometric Pressure: 29.78"Hg

Air Temperature: 68 °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. 11614

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

Time	CH4	CO2	O2
0715	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0845	14.9	15.0	20.9

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: 08/05/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: S Barometric Pressure: 29.85"Hg

Air Temperature: 63 °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. 11614

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

Time	CH4	CO2	O2
0715	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0850	14.9	14.8	21.0

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

SCS ENGINEERS

November 4, 2015

File No. 04207033.08

**Subject: Fourth Quarter 2015 Groundwater Monitoring Event
Coupeville Solid Waste Facility, Island County, Washington**

Sampling Dates: October 26-30, 2015

Personell: Sam Graber

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells N2D (1015-07) and C1S (0715-12).
- Water level elevations were measured at monitoring wells W1S on October 26, 2015, and N4S, on October 29, 2015.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at E2D, E2S, E4D, and E7D and sent to TestAmerica of Tacoma, Washington for comparison.

Date Sampled	Sample Number	Well
10/26/2015	1015-01	W1D
10/26/2015	1015-02	N5D
10/26/2015	1015-03	N5S
10/26/2015	1015-04	N3D
10/26/2015	1015-05	N3S
10/26/2015	1015-06	S11D
10/27/2015	1015-07	N2D
10/27/2015	1015-08	N2D (dup)
10/27/2015	1015-09	N2S
10/27/2015	1015-10	N1SR
10/27/2015	1015-11	N1D
10/27/2015	1015-12	C1S
10/27/2015	1015-13	C1S (dup)
10/27/2015	1015-14	S10S
10/27/2015	1015-15	S11S
10/28/2015	1015-16	E3D
10/28/2015	1015-17	E4S
10/28/2015	1015-18	NE1D
10/28/2015	1015-19	NE1S
10/28/2015	1015-20	STP
10/28/2015	1015-21	S7
10/28/2015	1015-22	E1S

Date Sampled	Sample Number	Well
10/28/2015	1015-23	E1D
10/29/2015	1015-24	E4D
10/29/2015	1015-25	SE1S
10/29/2015	1015-26	SE1D
10/29/2015	1015-27	E2S
10/29/2015	1015-28	E2D
10/29/2015	1015-29	WR1
10/29/2015	1015-30	W2S
10/30/2015	1015-31	DOT
10/30/2015	1015-32	DNR


SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	 DTW <u>140.01</u> TOS Intake BOS Total Depth	Meter: <u>MP-20</u> YSI		CONTROL SETTINGS:		
Well ID: <u>W1D</u>		Refill: <u>8</u>	1 ft water = 0.62L		1L = 0.24 gallons	
Sample ID: <u>1015-01</u>		Discharge: <u>7</u>	One Well Volume (liters)		Other: _____	
Date: <u>10/26/15</u>		Pressure: <u>75</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Weather: <u>cloudy</u>		Flow: <u>250 ml/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
1028		11.80	960	7.48	7.01	205	3.47	
1035	140.01	10.87	951	6.51	7.14	166		
1040		10.81	956	3.34	7.40	-27		
1043		10.76	948	2.15	7.56	-56		
1046		10.74	946	1.64	7.65	-71		
1049		10.73	952	1.26	7.71	-83	1.07	
1052	140.01	10.72	951	0.98	7.76	-93		
1055		10.71	947	0.84	7.78	-98	1.68	

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

WIS DTW = 109.64

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature


SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County		DTW 150.44	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: NSD		TOS	YSI	Refill: <u>13</u>	One Well Volume (liters)	Other:		
Sample ID: 1015-02		Intake		Discharge: <u>17</u>			Flow Setting:	
Date: 10/26/15		BOS		Pressure: <u>100</u>	Total Volume Bailed (liters)			
Weather: overcast		Total Depth		Flow: <u>≈ 175 mL/min</u>				
Filtered? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Damage? <input type="checkbox"/> Y <input checked="" type="checkbox"/> 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.
1200	<u>120.5m</u>	<u>purse</u>						
1205		11.07	1233	7.45	7.55	96	1.48	
1210	150.44	10.77	1387	2.31	7.33	32		
1213		10.79	1405	1.15	7.32	-48		
1216		10.79	1405	0.78	7.32	-44		
1219		10.80	1398	0.58	7.32	-34		
1222	150.44	10.80	1407	0.53	7.32	-30		
1225		10.80	1411	0.50	7.32	-27	0.31	

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

SAMPLER: Sam Grabar
Printed Name

Sam Grabar
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>		Meter: <u>MP-20</u>	CONTROL SETTINGS:			
Well ID: <u>N55</u>		YSI	1 ft water = 0.62L	1L = 0.24 gallons		
Sample ID: <u>1015-03</u>		Refill: <u>15</u>	One Well Volume (liters): _____	Other: _____		
Date: <u>10/26/15</u>		Discharge: <u>15</u>	Total Volume Bailed (liters): _____	Flow Setting: _____		
Weather: <u>overcast</u>	Total Depth: _____	Pressure: <u>80</u>	Flow: <u>200 mL/min</u>			
Filtered? <input checked="" type="checkbox"/> Y	Locked? <input checked="" type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> N	Damage? <input checked="" type="checkbox"/> Y			
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):

leak at discharge tubing connection

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300	<i>Desim</i>	<i>purse</i>						
1304		11.13	734	7.00	7.48	84		
1309	150.70	10.85	732	3.78	7.40	85	0.17	
1312		10.84	730	2.57	7.38	84		
1315		10.83	729	1.80	7.37	82		
1318		10.83	727	1.60	7.37	80		
1321		10.84	730	1.47	7.37	80		
1324	150.70	10.85	731	1.44	7.37	79	0.07	

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

SAMPLER: Sam Garbar
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>		Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons
Well ID: <u>N3D</u>		YSI	Refill: <u>8</u>	Discharge: <u>7</u>	Pressure: <u>80</u>	Flow: <u>250 mL/min</u>
Sample ID: <u>1015-04</u>		Intake	One Well Volume (liters): _____	Other: _____		
Date: <u>10/26/15</u>		BOS	Total Volume Bailed (liters): _____	Flow Setting: _____		
Weather: <u>overcast</u>	Total Depth					

Filtered? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
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.
1515	<u>begin</u>	<u>purse</u>						
1520		15.28	615	6.42	6.91	127		
1525		14.37	617	6.34	6.84	130		
1530	151.02	14.06	611	6.26	6.85	130	0.34	
1534		13.86	613	5.00	6.48	126		
1539		13.58	620	3.07	7.17	115		
1542		13.50	622	2.56	7.25	103		
1545		13.43	623	2.15	7.33	84		
1549	151.02	13.37	623	1.75	7.41	50		
1552		13.28	621	1.47	7.50	28		
1555		13.23	617	1.30	7.55	14	0.64	

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

SAMPLER: Sam Gratzler
Printed Name

Sam Gratzler
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County

Well ID: N35

Sample ID: 1015-05

Date: 10/26/15

Weather: overcast



140.71 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

Refill 9

One Well Volume (liters)

Other:

Discharge 6

Flow Setting:

Pressure 75

Total Volume Bailed (liters)

Flow 250 u/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.
1620		13.54	1050	4.32	7.25	-55		
1625		13.27	1078	2.36	7.19	-65		
1628		13.12	1077	2.69	7.19	-44		
1631		13.05	1082	3.40	7.20	-31	0.92	
1634		12.96	1067	4.49	7.22	-7		
1637		12.94	1063	4.87	7.22	10		
1640	140.82	12.93	1064	5.15	7.22	21	0.80	
1643		12.93	1056	5.27	7.23	30	0.76	

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

SAMPLER:

Printed Name

Sam Grubar

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County

Well ID: S11D

Sample ID: 1015-06

Date: 10/26/15

Weather: overcast



147.0
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: 90
Flow: 200 ml/min

One Well Volume (liters)
Total Volume Bailed (liters)

Other:
Flow Setting:

Filtered? Y N
Sample Containers:
1000 ml Poly
500 ml HNO3 x2
125 ml NaOH
Locked? Y N
500 ml Poly
500 ml H2SO4 x2
Water in Protector? Y N
250 ml Poly
40 ml VOA x3 x6
Damage? Y N
125 ml Poly

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1750	begin purge							
1757		11.75	390	7.84	7.73	98	2.20	
1802		11.10	399	5.80	7.64	36		
1805		10.91	388	3.82	7.64	-25		
1808		10.82	390	2.52	7.64	-53		
1811	148.40	10.73	385	2.07	7.64	-58		
1814		10.75	392	1.64	7.66	-66		
1817	148.50	10.73	387	1.44	7.66	-74	3.48	

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

SAMPLER: Sam braber
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County		Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: N20 N20		YSI	Refill: <u>3</u>	Discharge: <u>7</u>	Pressure: <u>30</u>	Flow: <u>250 mL/min</u>	One Well Volume (liters): _____
Sample ID: 1015-07		Intake	Total Volume Bailed (liters): _____	Other: _____			
Date: 10/11/15 10/27/15		BOS	Flow Setting: _____				
Weather: overcast	Total Depth						
Filtered? Y <input checked="" type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/>				
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.
409		13.35	1207	1.44	6.67	-145	1.21	
914	148.87	13.08	1196	0.79	6.78	-127		
917		13.21	1189	0.87	6.81	-110		
920		13.17	1207	0.62	6.81	-86		
923		13.16	1212	0.54	6.82	-62		
926	148.87	13.11	1213	0.50	6.82	-47		
929		13.10	1211	0.47	6.82	-41	1.02	

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

Dup taken at
1015-08 @ 945

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	Meter: <u>MP-20</u> YSI	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>NLS</u>		Refill: <u>10</u>	One Well Volume _____		Other: _____	
Sample ID: <u>1015-09</u>		Discharge: <u>5</u>	Total Volume Bailed _____		Flow Setting: _____	
Date: <u>10/27/15</u>		Pressure: <u>90</u>	Total Volume Bailed (liters)			
Weather: <u>cloudy</u>	Flow: <u>50 ml/min</u>					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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					



see notes
 DTW
 TOS
 Intake
 BOS
 Total Depth 141'

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1015		14.77	1133	6.69	7.31	92	0.63	
1021		14.30	1410	5.75	6.78	119		
1024		14.23	153 *	5.41	6.72	127		
1027		14.12	158	5.20	6.71	129	2.26	
1030		14.08	159	5.03	6.70	132	0.38	

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

Did not get WL reading.
 WL ~~probably~~ probably below top of pump.
 hit top of pump at 137'.

* spc switched from "1.500" to "1.51"

* ~~low~~ low flow *

B260 B sample slightly effervescent

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

SAMPLER: Sam Grabar
 Printed Name

[Signature]
 Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L		1L = 0.24 gallons		
Well ID: <u>NISR</u>	MP-20 YSI	Refill: <u>8</u>	One Well Volume (liters): _____		Other: _____	
Sample ID: <u>1015-10</u>		Discharge: <u>7</u>	Total Volume Bailed (liters): _____		Flow Setting: _____	
Date: <u>10/27/15</u>		Pressure: <u>55</u>				
Weather: <u>part cloudy</u>	Total Depth: _____	Flow: <u>200 mL/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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					



94.62 DTW
 TOS
 Intake
 BOS
 Total Depth

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1220								
1230	begin purging	14.09	422	5.45	6.73	31	3.41	
1235	94.87	13.87	431	4.36	6.35	27		
1238		13.88	433	3.99	6.30	29		
1241		14.00	434	3.72	6.27	39		
1244	94.87	14.00	435	3.56	6.26	51	7.22	
1247		14.10	440	3.47	6.25	76	6.31	
1250	94.87	14.24	440	3.40	6.25	86	7.13	
1253		14.27	440	3.41	6.26	101	7.38	
1258		14.29	443	3.41	6.25	111	7.31	

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

air leak at discharge tubing connection.
 letting bubbles into discharge tubing.

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

SAMPLER: Sam Gruber
 Printed Name

[Signature]
 Signature

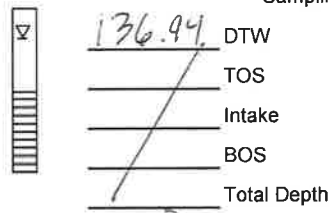
SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>NID</u>	YSI	Refill: <u>8</u>	One Well Volume (liters): _____		Other: _____	
Sample ID: <u>1015-11</u>	Intake	Discharge: <u>7</u>	Total Volume Bailed (liters): _____		Flow Setting: _____	
Date: <u>10/27/15</u>	BOS	Pressure: <u>35</u>	Flow: <u>200 mL/min</u>			
Weather: <u>partly cloudy</u>	Total Depth					
Filtered? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
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	1205.00	purge						
1338		15.97	1296	6.94	7.68	118		
1343		15.29	1.51 #	7.21	7.55	120	5.24	
1346	136.94	14.39	1.52	7.21	7.50	120		
1349		14.36	1.53	6.84	7.39	121		
1352		14.35	1.53	5.57	7.27	108		
1355		14.38	1.53	4.15	7.21	35		
1358		14.49	1.53	3.17	7.18	-10	1.59	
1401	136.95	14.84	1.53	2.45	7.15	-20	2.43	
1404		15.00	1.53	2.30	7.15	-24	1.30	

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

SpC switched from 1,500 to ~~1.51~~ 1.51

unit = ~~mS/cm~~

mS/cm

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

SAMPLER: Sam Granger
Printed Name


[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>	 DTW <u>91.50</u> TOS Intake BOS Total Depth	Meter: <u>CONTROL SETTINGS:</u>		1 ft water = 0.62L		1L = 0.24 gallons
Well ID: <u>C15</u>		MP-20	Refill	<u>8</u>	One Well Volume	Other:
Sample ID: <u>1015-12</u>		YSI	Discharge	<u>7</u>	(liters)	Flow
Date: <u>10/27/15</u>			Pressure	<u>55</u>	Total Volume Bailed	Setting:
Weather: <u>Sunny</u>		Flow	<u>250 mL/min</u>	(liters)		
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

Dup taken at
1015-13 @ 1530

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1455	begin purge							
1457		14.03	1082	5.53	6.61	114	3.54	
1502		13.78	1125	3.42	6.40	132		
1505		13.80	1127	3.37	6.40	133		
1508		13.77	1135	3.35	6.34	136		
1511	42.00	13.65	1138	3.33	6.40	138	2.99	
1514		13.75	1146	3.30	6.40	140		
1517	42.00	13.74	1144	3.28	6.40	141	2.90	

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

SAMPLER: Sam Gralser
Printed Name

Sam Gralser
Signature

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	136.41 DTW	Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L		1L = 0.24 gallons		
Well ID: <u>5105</u>	/	<u>MP-20</u>	Refill: <u>8</u>	One Well Volume (liters): _____	Other: _____		
Sample ID: <u>1015 - 1014</u>	/	YSI	Discharge: <u>7</u>	Total Volume Bailed (liters): _____	Flow Setting: _____		
Date: <u>10/27/15</u>	/	BOS	Pressure: <u>70</u>				
Weather: <u>Partly Cloudy</u>	/	Total Depth	Flow: <u>250 ml/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

leak at discharge tubing connection
leaving air into tubing

TIME	DTW	Temp.	Sp. Cond.	DO	pH	Eh	Turbidity	Q / Vol.
610	12214							
614		15.81	1167	6.59	7.47	127		
619		15.37	1393	5.00	6.36	144	6.97	
622		15.32	1422	3.87	6.78	145		
625		15.19	1441	2.75	6.69	146		
628	136.45	15.08	1443	2.00	6.64	145	5.89	
631		15.04	1444	1.63	6.63	144		
634		14.98	1448	1.33	6.62	143		
637		14.94	1434	1.22	6.62	142	1.07	

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

SAMPLER: Sam Gruber
Printed Name

[Signature]
Signature

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>5115</u>	DTW TOS Intake BOS Total Depth	Refill	<u>11</u>	One Well Volume (liters)	Other: _____	
Sample ID: <u>1015-15</u>		Discharge	<u>9</u>	Total Volume Bailed (liters)	Flow Setting: _____	
Date: <u>10/27/15</u>		Pressure	<u>70</u>			
Weather: <u>partly cloudy</u>		Flow	<u>250 mL/min</u>			
Filtered? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Water in Protector? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Damage? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> 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.
1725	begin	purse						
1731		11.47	904	7.79	7.45	152		
1736	135.70	10.96	898	4.22	7.27	-156	7.16	
1739		10.76	901	2.80	7.33	-158		
1742	135.68	10.60	905	1.38	7.44	-160	6.29	
1745		10.54	904	0.75	7.49	-163	4.89	
1748	135.68	10.50	899	0.41	7.53	-159	5.62	
1751		10.48	901	0.32	7.54	-154	5.65	

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

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

SAMPLER: Sam Lovatzer
 Printed Name

[Signature]
 Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County

Well ID: E3D

Sample ID: 1015-16

Date: 10/7/8 115

Weather: rainy

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			

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 _____ Other: _____

Discharge 7 Total Volume Bailed _____ Flow Setting: _____

Pressure 100

Flow _____

DTW 151.31

TOS _____

Intake _____

BOS _____

Total Depth _____

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
930	<u>160</u>	<u>12.45</u>	<u>665</u>	<u>7.14</u>	<u>7.68</u>	<u>166</u>		
947	<u>151.32</u>	<u>12.50</u>	<u>702</u>	<u>7.30</u>	<u>7.68</u>	<u>163</u>	<u>4.96</u>	
950		<u>12.63</u>	<u>741</u>	<u>7.54</u>	<u>7.68</u>	<u>162</u>		
953		<u>12.17</u>	<u>748</u>	<u>7.66</u>	<u>7.60</u>	<u>164</u>		
956		<u>11.88</u>	<u>751</u>	<u>7.66</u>	<u>7.55</u>	<u>167</u>		
959		<u>11.68</u>	<u>752</u>	<u>6.84</u>	<u>7.46</u>	<u>163</u>	<u>0.50</u>	
1002		<u>11.65</u>	<u>752</u>	<u>5.44</u>	<u>7.40</u>	<u>160</u>		
1006	<u>151.35</u>	<u>11.63</u>	<u>752</u>	<u>4.45</u>	<u>7.37</u>	<u>153</u>		
1009		<u>11.61</u>	<u>748</u>	<u>3.40</u>	<u>7.39</u>	<u>83</u>		
1012		<u>11.59</u>	<u>756</u>	<u>2.87</u>	<u>7.41</u>	<u>55</u>		
1015		<u>11.58</u>	<u>753</u>	<u>2.53</u>	<u>7.43</u>	<u>38</u>		
1018		<u>11.50</u>	<u>752</u>	<u>2.35</u>	<u>7.45</u>	<u>21</u>	<u>3.51</u>	

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]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County		Meter: <u>CONTROL SETTINGS:</u>	1 ft water = 0.62L		1L = 0.24 gallons	
Well ID: <u>EUS</u>		<u>MP-20</u>	Refill: <u>8</u>	One Well Volume (liters): _____	Other: _____	
Sample ID: <u>1015-17</u>		YSI	Discharge: <u>7</u>	Total Volume Bailed (liters): _____	Flow Setting: _____	
Date: <u>10/28/15</u>			Pressure: <u>30</u>			
Weather: <u>overcast</u>		Flow: <u>250 ml/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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):

MS / MSD taken ~~here~~ here

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1055	begin purge							
1102		11.79	775	7.70	7.52	136		
1107		11.30	996	5.63	7.06	130	6.41	
1110		11.23	1038	4.40	6.99	132		
1113	141.91	11.20	1077	3.50	6.94	133	4.09	
1116		11.17	1086	3.12	6.92	133		
1119		11.16	1083	2.95	6.91	133		
1122	141.92	11.16	1099	2.75	6.91	133	4.02	

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

SAMPLER: San Graber
Printed Name

[Signature]
Signature

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2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08		Sampling Method: <u>Dedicated</u> Meter: <u>MP-20</u> YSI	1.75" QED SamplePro Bail Peristaltic Grab Other	CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons Refill: <u>11.5</u> Discharge: <u>8.5</u> Pressure: <u>100</u> Flow: <u>75 mL/min</u>	One Well Volume (liters): _____ Total Volume Bailed (liters): _____ Other: _____ Flow Setting: _____
Site: <u>Island County</u>	DTW: <u>158.73</u>	Filtered? Y <input checked="" type="checkbox"/> Locked? <input checked="" type="checkbox"/> N Water in Protector? Y <input checked="" type="checkbox"/> Damage? Y <input checked="" type="checkbox"/>			
Well ID: <u>NE1D</u>	TOS: _____	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			
Sample ID: <u>1015-18</u>	Intake: _____	Notes / Observations (color, odor, anomalies, etc): balanced flow cell in well casing cap. to avoid bubbles getting into tubing. - cap broke off after sampling			
Date: <u>10/28/15</u>	BOS: _____				
Weather: <u>rainy</u>	Total Depth: _____				

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1311		13.32	696	6.62	6.91	163		
1316		13.28	693	5.52	6.85	164		
1319		13.18	692	4.76	6.91	162		
1322	158.50	13.15	688	4.20	6.96	157	7.94	
1325		13.10	685	3.39	7.04	152		
1328		13.05	675	2.69	7.09	140		
1331		12.97	676	2.35	7.13	122	6.62	
1334		12.43	675	1.95	7.17	105	6.46	
1337		12.91	672	1.75	7.20	92	6.61	

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

SAMPLER: Sam Greber
 Printed Name

[Signature]
 Signature

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County

Well ID: NEIS

Sample ID: 1015-19

Date: 10/28/15

Weather: Rainy



145.20 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 10

One Well Volume _____ (liters)

Other: _____

Discharge 10

Flow Setting: _____

Pressure 90

Total Volume Bailed _____ (liters)

Flow 150 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.
1423		13.39	633	2.05	7.54	143	9.16	
1428		13.12	750	6.35	7.16	156		
1431		12.86	778	5.64	7.03	150	4.35	
1434		12.75	777	5.44	7.00	162		
1437		12.68	774	5.31	7.00	163	4.25	
1440		12.69	775	5.22	7.00	164		
1443		12.77	778	5.04	7.01	164	4.59	

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

SAMPLER: _____

Printed Name

Sam Graber


Signature

[Signature]

SCS ENGINEERS2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>STP</u>	 DTW _____ TOS _____ Intake _____ BOS _____ Total Depth _____	Refill _____	One Well Volume _____	Other: _____		
Sample ID: <u>1015-20</u>		Discharge _____	(liters)	Flow Setting: _____		
Date: <u>10/28/15</u>		Pressure _____	Total Volume Bailed _____			
Weather: <u>partly cloudy</u>		Flow _____	(liters)			
Filtered? <u>Y N</u>	Locked? <u>Y N</u>	Water in Protector? <u>Y N</u>	Damage? <u>Y N</u>			
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.
<u>1550</u>		<u>11.95</u>	<u>564</u>	<u>1.75</u>	<u>8.10</u>	<u>-115</u>	<u>75.34</u>	

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

Sulfur odor from water

Slight brownish-black colour

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

SAMPLER: Sam Graber
Printed Name[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>57</u>		Refill	One Well Volume	Other: _____		
Sample ID: <u>1015-21</u>		Discharge	(liters)	Flow Setting: _____		
Date: <u>10/28/15</u>		Pressure	Total Volume Bailed			
Weather: <u>partly cloudy</u>		Flow	(liters)			
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y N	Damage? Y <input checked="" type="checkbox"/> 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.
1630		11.93	723	3.94	7.72	44	1.28	*

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

effervescent.

* Brian said well is no longer in service & that there is a new supply well on site.

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County		Meter: <u>MP-20</u> YSI		CONTROL SETTINGS:		
Well ID: <u>EIS</u>		Refill: <u>13</u>	1 ft water = 0.62L		1L = 0.24 gallons	
Sample ID: <u>1015-22</u>		Discharge: <u>7</u>	One Well Volume (liters)		Other: _____	
Date: <u>10/28/15</u>		Pressure: <u>70</u>	Total Volume Bailed (liters)		Flow Setting: _____	
Weather: <u>partly cloudy</u>	Total Depth	Flow: <u>250 mL/min</u>				
Filtered? Y <input checked="" type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/>			
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.
1703	138.78	12.34	1151	6.79	7.02	83		
1708		12.24	1148	6.41	6.89	80		
1711		12.28	1153	6.47	6.81	82	13.54	
1714		12.13	1151	6.16	6.79	87		
1717	138.78	12.05	1143	6.07	6.77	88	5.42	
1720	138.78	12.02	1151	6.07	6.76	91		
1723	138.78	12.00	1141	5.96	6.74	92	4.38	

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

took 8151 sample

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

SAMPLER: Sgm Graner
Printed Name

Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County

Well ID: EVD EID

Sample ID: 1015-23

Date: 10/28/15

Weather: cloudy

Sampling Method: Dedicated

Meter: MP-20
YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 300 microliters

1.75" QED SamplePro Bail
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters) _____
Total Volume Bailed (liters) _____
Other: _____
Flow Setting: _____

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

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.
1758		12.95	1356	7.18	7.24	82		
1803		12.16	1.57*	7.31	7.18	92	2.09	
1808	138.72	12.03	1.65	7.00	7.16	98		
1811		12.02	1.66	6.20	7.09	99		
1814		11.98	1.67	4.35	7.00	63		
1817	138.72	11.95	1.67	3.24	6.93	45		
1820		11.92	1.67	2.40	6.89	47	0.06	
1823		11.89	1.67	2.00	6.87	52		
1827		11.86	1.66	1.52	6.86	59		
1830		11.84	1.66	1.34	6.84	63	0.06	

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

Sam Graber
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County		Meter: <u>MP-20</u>	CONTROL SETTINGS:			
Well ID: <u>E4D</u>		YSI	Refill: <u>12</u>	1 ft water = 0.62L	1L = 0.24 gallons	Other: _____
Sample ID: <u>1015-24</u>		Discharge: <u>0</u>	One Well Volume (liters): _____	Flow Setting: _____		
Date: <u>10/29/15</u>		Pressure: <u>100</u>	Total Volume Bailed (liters): _____			
Weather: <u>Sunny</u>	Total Depth: _____	Flow: <u>80 mL/min</u>				
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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								
928		12.37	560	7.41	7.63	152	9.59	
933		11.99	564	7.16	7.66	22		
936		11.88	565	6.42	7.59	-88		
941		11.80	561	4.57	7.58	-132		
944		11.73	561	3.63	7.63	-149	7.6	
948		11.79	558	2.70	7.71	-161		
951	154.06	11.87	552	2.20	7.76	-171		
954		11.86	550	1.88	7.82	-175		
957		11.90	550	1.68	7.83	-180	2.2	

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

TA split taken

CswF - 102415 - 01

* low flow *

water has sulfur odor

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

SAMPLER: Sam Gabar
Printed Name

[Signature]
Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island County	Meter: <u>MP-28</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>5815</u>	YSI	Refill: <u>8</u>	One Well Volume (liters):	Other: _____		
Sample ID: <u>1015-25</u>	Intake	Discharge: <u>7</u>	Total Volume Bailed (liters):	Flow Setting: _____		
Date: <u>10/29/15</u>	BOS	Pressure: <u>70</u>				
Weather: <u>Partly Cloudy</u>	Total Depth	Flow: <u>300 mL/min</u>				
Filtered? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	Locked? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	Water in Protector? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	Damage? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>			
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.
1121		11.24	840	6.08	7.24	44		
1126	140.25	11.00	836	5.50	7.23	58		
1129		11.15	840	5.29	7.21	65	1.2	
1132		11.19	832	5.09	7.22	70		
1135		11.18	836	4.94	7.23	73		
1138		11.21	837	4.78	7.23	77		
1141	140.24	11.24	834	4.69	7.24	79	1.0	

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

MS/MSD taken here.

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature

SCS ENGINEERS

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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County		Meter: <u>MP-20</u> YSI	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>1015-26</u>		Refill: <u>8</u>	One Well Volume (liters): _____	Other: _____			
Sample ID: <u>SE10</u>		Discharge: <u>7</u>	Pressure: <u>85</u>	Total Volume Bailed (liters): _____	Flow Setting: _____		
Date: <u>10/29/15</u>		Flow: <u>300 mL/min</u>					
Weather: <u>overcast</u>	Total Depth: _____						
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
1215		<i>begin purge</i>						
1222		12.55	433	7.27	7.56	45		
1227		11.23	433	5.93	7.35	104	0.7	
1230		11.11	439	3.99	7.34	16		
1233		11.05	433	2.57	7.39	-48		
1236	141.18	10.99	427	1.70	7.46	-82		
1239		11.02	434	1.30	7.50	-89	2.2	
1242	141.16	11.02	436	1.11	7.54	-94	2.6	

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

10/29/15

124.24 ← N45

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

SAMPLER: Sam Garbar
Printed Name

[Signature]
Signature

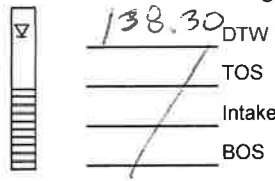
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Bellevue, WA 98005

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Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>		CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>E25</u>		Meter: <u>MP-20</u>	Refill: <u>3</u>	One Well Volume _____ (liters)		Other: _____
Sample ID: <u>1025-27</u>		YSI	Discharge: <u>7</u>	Total Volume Bailed _____ (liters)		Flow Setting: _____
Date: <u>10/29/15</u>		BOS	Pressure: <u>75</u>	Flow: <u>300 mL/min</u>		
Weather: <u>rainy</u>	Total Depth					
Filtered? Y <input checked="" type="checkbox"/> N	Locked? Y <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> 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.
1425	begin	Purge						
1430		13.14	1359	3.37	6.73	105		
1435		12.83	1343	0.65	6.68	109		
1439		12.84	1352	0.50	6.69	109		
1442	138.45	12.83	1350	0.45	6.68	110	1.0	
1445		12.95	1356	0.45	6.68	110		
1448		13.01	1345	0.47	6.69	111		
1451	138.45	12.79	1356	0.47	6.69	111	0.7	

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

effervescent

TA split taken as

CSWF-102915-02

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

SAMPLER: Sam Graber
Printed Name

[Signature]
Signature


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Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: <u>Island County</u>	 148.75 DTW	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons
Well ID: <u>E20</u>		TOS	Refill: <u>11</u>	Discharge: <u>9</u>	Pressure: <u>100</u>	Flow: <u>200 mL/min</u>
Sample ID: <u>1015-28</u>	Intake	YSI	Total Volume Bailed (liters): _____		Flow Setting: _____	Other: _____
Date: <u>10/29/15</u>	BOS					
Weather: <u>Rainy</u>	Total Depth					
Filtered? Y <input checked="" type="checkbox"/>	Locked? Y <input checked="" type="checkbox"/>	Water in Protector? Y <input checked="" type="checkbox"/>	Damage? Y <input checked="" type="checkbox"/>			
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):

TA split taken as

CSWF-102915-03

effervescent

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1532	begin	purge						
1538		14.18	1.39	6.77	7.07	110		
1543		13.28	1.80	4.76	6.80	125		
1546		13.16	1.81	2.65	6.63	129		
1549	148.77	13.11	1.81	1.78	6.57	132		
1552		13.07	1.81	1.21	6.53	134		
1555		13.04	1.81	0.97	6.51	135	0.6	
1558	148.78	13.02	1.81	0.84	6.51	135	0.7	
			*					

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

SAMPLER: Sam Grabar
Printed Name

[Signature]
Signature


SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method: <u>Dedicated</u>		<u>1.75" QED SamplePro</u>	<u>Bail</u>	<u>Peristaltic</u>	<u>Grab</u>	<u>Other</u>
Site: <u>Island County</u>		DTW	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons
Well ID: <u>WR1</u>		TOS	YSI	Refill	<u>One Well Volume</u>	Other: _____	
Sample ID: <u>1015-29</u>		Intake		Discharge	(liters)	Flow Setting: _____	
Date: <u>10/29/15</u>		BOS		Pressure	Total Volume Bailed		
Weather: <u>overcast</u>		Total Depth		Flow	(liters)		
Filtered? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	Locked? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	Water in Protector? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>	Damage? <u>Y</u> <input checked="" type="radio"/> <u>N</u> <input type="radio"/>				

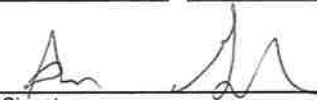
Sample Containers:	1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
	500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
	125 ml NaOH			

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1700		12.08	861	2.10	7.15	175	0.7	

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

SAMPLER: Sam Grabar
 Printed Name


 Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other	
Site: Island County		Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>W25</u>		YSI	Refill: <u>8</u>	Discharge: <u>7</u>	Pressure: <u>80</u>	Flow: <u>250 ml/min</u>	One Well Volume (liters): _____
Sample ID: <u>1013-30</u>							Total Volume Bailed (liters): _____
Date: <u>10/29/15</u>							Other: _____
Weather: <u>overcast</u>							Flow Setting: _____
Filtered? Y <input checked="" type="checkbox"/> N	Locked? <input checked="" type="checkbox"/> N	Water in Protector? Y <input checked="" type="checkbox"/> N	Damage? Y <input checked="" type="checkbox"/> N	Sample Containers:			Notes / Observations (color, odor, anomalies, etc):
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.
1753		11.43	848	3.21	7.53	149		
1758		10.57	916	6.66	6.94	162	0.8	
1801		10.50	924	6.24	6.96	162		
1804		10.56	917	5.91	6.94	162		
1807		10.66	917	5.88	6.93	162		
1810	149.01	10.72	921	5.89	6.91	161		
1813		10.64	925	6.05	6.92	161	1.0	

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

SAMPLER: Sam Gruber
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107

Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: <u>04207033.08</u>	Sampling Method: <u>Dedicated</u>	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site <u>Island County</u>	Meter: <u>MP-20</u>	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: <u>DOT</u>	<u>YSI</u>	Refill	_____	One Well Volume	Other: _____	
Sample ID: <u>1015-31</u>		Discharge	_____	(liters)	Flow	
Date: <u>10/30/15</u>		Pressure	_____	Total Volume Bailed	Setting: _____	
Weather: <u>partly sunny</u>		Flow	_____	(liters)		
Filtered? Y <u>N</u>	Locked? Y <u>N</u>	Water in Protector? Y <u>N</u>	Damage? Y <u>N</u>			
Sample Containers:	<u>1000 ml Poly</u>	<u>500 ml Poly</u>	<u>250 ml Poly</u>	<u>125 ml Poly</u>		
	<u>500 ml HNO3 x2</u>	<u>500 ml H2SO4 x2</u>	<u>40 ml VOA x3</u>	<u>x6</u>	<u>1000 ml Amber</u>	
	<u>125 ml NaOH</u>					

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
<u>1330</u>		<u>13.14</u>	<u>668</u>	<u>1.22</u>	<u>7.74</u>	<u>-98</u>	<u>0.9</u>	

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

SAMPLER: Sean Graber
Printed Name

[Signature]
Signature

SCS ENGINEERS

2405 140th ave NE #107
Bellevue, WA 98005

(425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.08

Site: Island County

Well ID: DNR

Sample ID: 1015-32

Date: 10/30/15

Weather: Sunny

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			

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: _____ | One Well Volume (liters): _____ | Other: _____

Discharge: _____ | Total Volume Bailed (liters): _____ | Flow Setting: _____

Pressure: _____

Flow: _____

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1410		12.30	860	8.58 2.96	7.30	-67	1.2	

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

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

SAMPLER: Sam Grabo
Printed Name

[Signature]
Signature

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/26/15					
Time	9:15					
Weather (sky or precip, temp)	cloudy, rainy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	447 445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	411	3.87	6.88	8.68		
Post Cal Reading	447	4.01	7.00	8.50	1081, 4.49, 0.0	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	* I.C. LF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/27/15					
Time	830					
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	1374	4.24	7.23	8.82		
Post Cal Reading	1413	4.01	7.00	8.50	1055, 7.83, 0.00	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	CSWF					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/28/15					
Time	900					
Weather (sky or precip, temp)	Rainy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1409	3.94	7.04	8.62		
Post Cal Reading	1413	4.01	7.00	8.50	954.7, 8.75, 0.0	
Discrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	I.C. LF.					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/29/15					
Time	850					
Weather (sky or precip, temp)	clear 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	1434	4.03	7.04	8.62		
Post Cal Reading	1413	4.01	7.00	8.50	Micro TPW 875.3, 1.57, error	itach error, 98.9, 4.9, 0.7
Discrepancy	had problems w/ turbidity meters					
Calib. Successful?	yes					
Calibration by	SEB					
Instrument Type, ID	MP20 / YSI 556			MicoTPW / HACH2000		
Calibration Location	I.O.C.					

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

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/30/15					
Time	845					
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	1401	3.97	6.96	7.98		
Post Cal Reading	1413	4.01	7.00	8.50	error, 98.3, 19.7, 0.8	
Discrepancy	No					
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 FIELD SERVICES

DAILY LOG

JOB NO. 04207033.08 TASK NO. 1, 2, 3 DATE 10/28/15 PROJECT NAME Island County
TEMP 55 BARO 29.71" WIND 2 N WEATHER Raining

SCS-FS LABOR	HOURS	OT				HOURS	OT
00001	3.0		00003			3.0	
00002	3.0						9.0 total
EQUIP, SVCS, MTLs, MLG	QTY	UNITS				QTY	UNITS
Service Truck	1	\$18.50 Hourly	SCS Field Services			9.0	\$166.50
Gem - 2000	1	\$185.00 Daily	SCS Field Services			1	\$185.00
INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	CH4 (%-LEL)	O2 (%-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		
0900	BL 1		69479.5	3.6A	99.41"		
0905	BL 2		92514.6	3.8A			
	FL						

SUMMARY

0400 Left Tacoma and traveled to Island County.
0725 Arrived onsite and calibrated my gem.
0730 Begin the monitoring of the perimeter probes along Hwy 20.
0900 Begin the monitoring of the BFS.
0915 Begin the monitoring of the wellfield.
0940 Complete the monitoring of the wellfield.
0945 Begin monitoring GP-30.
1045 pack up my equipment and leave the site.
1400 Email all of my readings to Eric for recommendations for the wellfield.

PREPARED BY: Brad Beach ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 10/28/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: N Barometric Pressure: 29.71"Hg

Air Temperature: 55 °F General Weather Conditions: Raining

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
0855	50.0	35.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1040	49.8	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: 10/28/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: N Barometric Pressure: 29.71"Hg

Air Temperature: 55 °F General Weather Conditions: Raining

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
0725	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0855	14.9	14.8	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: 10/29/15

Site Name: IC

Technician: BB

Job No. 04207033.07

WEATHER OBSERVATIONS

Wind Speed: 0 MPH Wind Direction: _____ Barometric Pressure: 29.83"Hg

Air Temperature: 53 °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
0715	15.0	15.0	20.9

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1010	14.8	14.8	211

NOTES:

The calibration is being done inside my work truck.

Post calibration was done inside my truck as well

APPENDIX B
2015 ANALYTICAL DATA VALIDATION
AND LABORATORY REPORTS
(LAB DATA REPORTS ON ATTACHED CD)

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 1Q15

Project Details

Project No.	04207033.08	Site Name	Island County Coupeville SWF
Data Validator	Matthew O'Hare	Data Level	Level II
Date	4/30/15	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)
15-01632	Particulates visible in sample 0115-01. See lab report.	Edge Analytical, Burlington WA
15-01729	No comments.	Edge Analytical, Burlington WA
15-01811	No comments.	Edge Analytical, Burlington WA
15-01876	No comments.	Edge Analytical, Burlington WA

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
15-01632	x	x	x	x	x	x	--
15-01729	x	x	x	x	x	x	--
15-01811	x	x	x	x	x	x	--
15-01876	x	x	x	x	x	x	x

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
CAL	Acceptable	No comments.
LFB	See lab reports.	Several analytes were flagged with values outside of threshold criteria.
LRB	Acceptable	No comments.
MB	Acceptable	No comments.
QCS	Acceptable	No comments
LFM	See lab reports.	Several analytes flagged with % recovery of matrix spike outside control limits.
DUP	See lab reports.	Several analytes over acceptable %RPD range.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
TB	N/A	N/A	The laboratory did not analyze a trip blank.
Field Replicates		See below.	See detailed results below.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	Units	E1S	E1S-Dup	RPD (%)	E1D	E1D-Dup	RPD (%)
Chloride	mg/L	94	94	0	88	87	1
Sulfate	mg/L	41	41	0	47	47	0
Total Nitrate/Nitrite	mg/L	12	12	0	0.50	0.54	8
Alkalinity	mg/L	405	404	0	809	814	1
Bicarbonate alkalinity	mg/L	405	404	0	809	814	1
TDS	mg/L	716	702	2	1014	1000	1
COD	mg/L	19	17	11	19	18	5
TOC	mg/L	1.20	1.06	12	1.28	1.28	0
Calcium	mg/L	122.5	122.3	0	150.1	146.0	3
Magnesium	mg/L	46.3	46.4	0	98.1	95.2	3
Potassium	mg/L	5.7	5.7	0	8.0	7.9	1
Sodium	mg/L	25.6	25.6	0	40.6	39.5	3
Arsenic	mg/L	0.001	0.001	0	0.004	0.004	0
Barium	mg/L	0.037	0.037	0	0.044	0.044	0
Chromium	mg/L	0.011	0.011	0	ND	ND	—
Manganese	mg/L	0.003	ND	—	0.040	0.041	2
Nickel	mg/L	0.005	0.005	0	0.008	0.009	12
Vanadium	mg/L	ND	ND	—	0.009	0.009	0
Trichlorofluoromethane	µg/L	2.3	1.8	24	ND	ND	—
Vinyl chloride (SIM)	µg/L	ND	ND	0	0.401	0.439	9

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
IM	Matrix induced bias assumed	15-01632, 15-01729, 15-01811
INH	The sample was non-homogeneous	15-01632, 15-01729, 15-01811, 15-01876
IS	Spike ratio too low	15-01632, 15-01729, 15-01811, 15-01876
S	Spike amount lower than 5:1	15-01729, 15-01876
LE	End calibration below acceptable limits	15-01811, 15-01876
E	Concentration exceeds calibration range.	15-01876
LM	LFB recovery below limits.	15-01876
N1	See case narrative	15-01876

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

February 13, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-01632 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Tuesday January 27, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS
QA Officer

Enclosures: Data Report



Burlington WA
Corporate Office

1620 S Walnut St - 98233
800.755.9295 \$ 360.757.1400

Bellingham WA
Microbiology

805 Orchard Dr Ste 4 - 98225
360.671.0688

Portland OR
Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070
503.682.7802

February 13, 2015

Page 1 of 1

Case Narrative

Reference: **15-01632**

Lab Sample ID	Sample Information	
3976	0115-01 - Coupeville Landfill	
Notes		Created by
Sample Note	3976 sample tube suspected to contain one of the black particulates in the sample while the DUP and LFM's do not accounting for the higher Fe. BJ 2/11/15	BJ
Analytical Method	Notes	Created by
6020A	Particulates visible in sample.	MVP



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-01632**
 Project: Coupeville Landfill

Report Date: 2/13/15

Date Received: 1/27/15
 Approved by: bj,mvp,sps
 Authorized by:

Patrick Miller
 Patrick Miller, MS
 QA Officer

Sample Description: 0115-01 - Coupeville Landfill										Sample Date: 1/26/15 11:00 am		
Lab Number: 3976		Sample Comment:								Collected By: Matt O'Hare		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	67	1.0	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
16984-48-8	FLUORIDE	0.17	1.0	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
14808-79-8	SULFATE	32	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-10128	TOTAL NITRATE/NITRITE	0.28	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-14506	ALKALINITY	426	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	426	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.08	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	572	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	16	8.0	3.	mg/L	1.0	SM5220 D	a	1/30/15	MMH	COD_150130	
E-10195	TOTAL ORGANIC CARBON	2.11	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	60.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.34	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	74.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	10.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	44.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.070	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	0.001	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.020	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.004	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-02 - Coupeville Landfill								Sample Date: 1/26/15 11:52 am			
Lab Number: 3977				Sample Comment:				Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	3.08	1.0	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
16984-48-8	FLUORIDE	0.12	1.0	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
14808-79-8	SULFATE	11	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-10128	TOTAL NITRATE/NITRITE	3.51	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-14506	ALKALINITY	205	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	205	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	267	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	3.	mg/L	1.0	SM5220 D	a	1/30/15	MMH	COD_150130	
E-10195	TOTAL ORGANIC CARBON	1.76	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	31.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	29.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	2.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	13.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.014	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0115-03 - Coupeville Landfill									Sample Date: 1/26/15 1:00 pm			
Lab Number: 3978			Sample Comment:						Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	121	1.0	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
16984-48-8	FLUORIDE	0.11	1.0	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
14808-79-8	SULFATE	130	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-14506	ALKALINITY	562	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	562	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	932	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	22	8.0	3.	mg/L	1.0	SM5220 D	a	1/30/15	MMH	COD_150130	
E-10195	TOTAL ORGANIC CARBON	3.28	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	132.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.27	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	105.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	10.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	47.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.110	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.178	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.013	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Sample Description: 0115-04 - Coupeville Landfill									Sample Date: 1/26/15 2:45 pm			
Lab Number: 3979			Sample Comment:						Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	58	1.0	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
16984-48-8	FLUORIDE	0.17	1.0	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
14808-79-8	SULFATE	37	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10128	TOTAL NITRATE/NITRITE	1.12	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A
E-14506	ALKALINITY	326	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129
NA	BICARBONATE	326	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	491	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	3.	mg/L	1.0	SM5220 D	a	1/30/15	MMH	COD_150130
E-10195	TOTAL ORGANIC CARBON	1.54	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203
7440-70-2	CALCIUM	73.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-95-4	MAGNESIUM	47.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-09-7	POTASSIUM	5.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-23-5	SODIUM	30.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.024	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	0.008	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	0.002	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-05 - Coupeville Landfill									Sample Date: 1/26/15 3:40 pm			
Lab Number: 3980			Sample Comment:						Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	62	1.0	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
16984-48-8	FLUORIDE	0.19	1.0	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
14808-79-8	SULFATE	26	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150127A	
E-14506	ALKALINITY	399	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	399	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.03	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	535	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	13	8.0	3.	mg/L	1.0	SM5220 D	a	1/30/15	MMH	COD_150130	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	1.79	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203
7440-70-2	CALCIUM	71.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-89-6	IRON	0.48	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-95-4	MAGNESIUM	60.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-09-7	POTASSIUM	7.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-23-5	SODIUM	33.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.010	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.048	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.179	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.004	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.004	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03980
Field ID: 0115-05
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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D.F. - Dilution Factor.



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03980
Field ID: 0115-05
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03979
Field ID: 0115-04
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03979
Field ID: 0115-04
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03978
Field ID: 0115-03
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03978
Field ID: 0115-03
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03977
Field ID: 0115-02
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03977
Field ID: 0115-02
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03976
Field ID: 0115-01
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01632**
Project: Coupeville Landfill

Lab Number: 03976
Field ID: 0115-01
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/26/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
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 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150129	AMMONIA-N	2.62	2.50	mg/L	350.1	105	90-110	CAL	
6010B-150206A	CALCIUM	10.7	11	mg/L	6010B	97	90-110	CAL	
	IRON	1.03	1	mg/L	6010B	103	90-110	CAL	
	MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	POTASSIUM	9.7	10	mg/L	6010B	97	90-110	CAL	
	SODIUM	10.7	11	mg/L	6010B	97	90-110	CAL	
6020_150210	ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	ARSENIC	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	BERYLLIUM	0.00104	0.001	mg/L	6020A	104	80-120	CAL	
	CADMIUM	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	CHROMIUM	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	COBALT	0.00094	0.001	mg/L	6020A	94	80-120	CAL	
	COPPER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	LEAD	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	MANGANESE	0.00094	0.001	mg/L	6020A	94	80-120	CAL	
	NICKEL	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	SELENIUM	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	SILVER	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	THALLIUM	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	VANADIUM	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	ZINC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
I150127A	CHLORIDE	0.99	1	mg/L	300.0	99	90-110	CAL	
	FLUORIDE	0.98	1	mg/L	300.0	98	90-110	CAL	
	SULFATE	1.93	2	mg/L	300.0	97	90-110	CAL	
	TOTAL NITRATE/NITRITE	1.97	2	mg/L	300.0	99	90-110	CAL	
TOC_150203	TOTAL ORGANIC CARBON	2.54	2.50	mg/L	SM5310 B	102	90-110	CAL	
	TOTAL ORGANIC CARBON	102.1	100.0	mg/L	SM5310 B	102	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
TOC_150203	TOTAL ORGANIC CARBON	4.71	5.00	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.47	0.50	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
6010B-150206A	CALCIUM	26.8	26	mg/L	6010B	103	85-115	LFB	
	IRON	1.05	1	mg/L	6010B	105	85-115	LFB	
	MAGNESIUM	26.4	26	mg/L	6010B	102	85-115	LFB	
	POTASSIUM	34.4	35	mg/L	6010B	98	85-115	LFB	
	SODIUM	25.9	26	mg/L	6010B	100	85-115	LFB	
6020_150210	ANTIMONY	0.042	0.040	mg/L	6020A	105	85-120	LFB	
	ARSENIC	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	BARIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	BERYLLIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CADMIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CHROMIUM	0.038	0.040	mg/L	6020A	95	85-120	LFB	
	COBALT	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	COPPER	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	LEAD	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	MANGANESE	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	NICKEL	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	SELENIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	SILVER	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	THALLIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	VANADIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
ZINC	0.042	0.040	mg/L	6020A	105	85-120	LFB		
8260W_150203	1,1 - DICHLOROETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	1,1 - DICHLOROETHYLENE	3.4	4	ug/L	8260B	85	80-120	LFB	
	1,1,1 - TRICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	1,1,1,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	1,1,2,2 - TETRACHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	1,2 - DICHLOROBENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120	LFB	
	1,2 - DICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
8260W_150203	1,2,3 - TRICHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	1,2-DIBROMO-3-CHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	1,4 - DICHLOROBENZENE (para)	4.6	4	ug/L	8260B	115	80-120	LFB	
	2-BUTANONE (MEK)	8.2	10	ug/L	8260B	82	80-120	LFB	
	2-HEXANONE	8.3	10	ug/L	8260B	83	80-120	LFB	
	4-METHYL-2-PENTANONE	9.5	10	ug/L	8260B	95	80-120	LFB	
	ACETONE	8.8	10	ug/L	8260B	88	80-120	LFB	
	BENZENE	3.4	4	ug/L	8260B	85	80-120	LFB	
	BROMOCHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	BROMODICHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	BROMOFORM	3.9	4	ug/L	8260B	98	80-120	LFB	
	BROMOMETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	CARBON DISULFIDE	9.6	10	ug/L	8260B	96	80-120	LFB	
	CARBON TETRACHLORIDE	3.3	4	ug/L	8260B	83	80-120	LFB	
	CHLOROBENZENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	CHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	CHLOROFORM	3.7	4	ug/L	8260B	93	80-120	LFB	
	CHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	CIS - 1,2 - DICHLOROETHENE	3.5	4	ug/L	8260B	88	80-120	LFB	
	CIS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB	
	DIBROMOCHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120	LFB	
	DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	ETHYLBENZENE	4.4	4	ug/L	8260B	110	80-120	LFB	
	M,P- XYLENE	9.2	8	ug/L	8260B	115	80-120	LFB	
	METHYL IODIDE	8.9	10	ug/L	8260B	89	80-120	LFB	
	METHYLENE CHLORIDE	3.7	4	ug/L	8260B	93	80-120	LFB	
	O - XYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	STYRENE	4.4	4	ug/L	8260B	110	80-120	LFB	
	TETRACHLOROETHYLENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TOLUENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRANS - 1,2 - DICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRANS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True		Method	%	Recovery Limits*	QC	QC	Comment
			Value	Units				Qualifier	Type	
8260W_150203	TRANS - 1,4 - DICHLORO-2-BUTENE	10.9	10	ug/L	8260B	109	80-120		LFB	
	TRICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120		LFB	
	TRICHLOROFUOROMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	VINYL ACETATE	8.3	10	ug/L	8260B	83	80-120		LFB	
	VINYL CHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
COD_150130	CHEMICAL OXYGEN DEMAND	55	50	mg/L	SM5220 D	110	90-110		LFB	
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	0.213	0.2	ug/L	8260SIM	107	70-130		LFB	
	ACRYLONITRILE (SIM)	0.216	0.2	ug/L	8260SIM	108	70-130		LFB	
	VINYL CHLORIDE (SIM)	0.226	0.2	ug/L	8260SIM	113	70-130		LFB	
TOC_150203	TOTAL ORGANIC CARBON	0.91	1.00	mg/L	SM5310 B	91	90-110		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150129	ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_150129	AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0	LRB	
	IRON	ND		mg/L	6010B		0-0	LRB	
	MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	SODIUM	ND		mg/L	6010B		0-0	LRB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	ARSENIC	ND		mg/L	6020A		0-0	LRB	
	BARIUM	ND		mg/L	6020A		0-0	LRB	
	BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	CADMIUM	ND		mg/L	6020A		0-0	LRB	
	CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	COBALT	ND		mg/L	6020A		0-0	LRB	
	COPPER	ND		mg/L	6020A		0-0	LRB	
	LEAD	ND		mg/L	6020A		0-0	LRB	
	MANGANESE	ND		mg/L	6020A		0-0	LRB	
	NICKEL	ND		mg/L	6020A		0-0	LRB	
	SELENIUM	ND		mg/L	6020A		0-0	LRB	
	SILVER	ND		mg/L	6020A		0-0	LRB	
	THALLIUM	ND		mg/L	6020A		0-0	LRB	
	VANADIUM	ND		mg/L	6020A		0-0	LRB	
ZINC	ND		mg/L	6020A		0-0	LRB		
I150127A	CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	SULFATE	ND		mg/L	300.0		0-0	LRB	
	TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150129	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150129	AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		MB	
	IRON	ND		mg/L	6010B		0-0		MB	
	MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	POTASSIUM	ND		mg/L	6010B		0-0		MB	
	SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		MB	
	ARSENIC	ND		mg/L	6020A		0-0		MB	
	BARIUM	ND		mg/L	6020A		0-0		MB	
	BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	CADMIUM	ND		mg/L	6020A		0-0		MB	
	CHROMIUM	ND		mg/L	6020A		0-0		MB	
	COBALT	ND		mg/L	6020A		0-0		MB	
	COPPER	ND		mg/L	6020A		0-0		MB	
	LEAD	ND		mg/L	6020A		0-0		MB	
	MANGANESE	ND		mg/L	6020A		0-0		MB	
	NICKEL	ND		mg/L	6020A		0-0		MB	
	SELENIUM	ND		mg/L	6020A		0-0		MB	
	SILVER	ND		mg/L	6020A		0-0		MB	
	THALLIUM	ND		mg/L	6020A		0-0		MB	
	VANADIUM	ND		mg/L	6020A		0-0		MB	
ZINC	0.001		mg/L	6020A		0-0		MB		
8260W_150203	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150203	CHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	CHLOROFORM	ND		ug/L	8260B		0-0		MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0		MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0		MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0		MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0		MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0		MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0		MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0		MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0		MB	
	O - XYLENE	ND		ug/L	8260B		0-0		MB	
	STYRENE	ND		ug/L	8260B		0-0		MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	TOLUENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0		MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0		MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0		MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0		MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC	Comment
8260W_150203	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB		
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB		
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB		
	2-HEXANONE	ND		ug/L	8260B		0-0	MB		
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB		
	ACETONE	ND		ug/L	8260B		0-0	MB		
	BENZENE	ND		ug/L	8260B		0-0	MB		
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB		
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB		
	BROMOFORM	ND		ug/L	8260B		0-0	MB		
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB		
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB		
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB		
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB		
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB		
	CHLOROFORM	ND		ug/L	8260B		0-0	MB		
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB		
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB		
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB		
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB		
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB		
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB		
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB		
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB		
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB		
	O - XYLENE	ND		ug/L	8260B		0-0	MB		
	STYRENE	ND		ug/L	8260B		0-0	MB		
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB		
	TOLUENE	ND		ug/L	8260B		0-0	MB		
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB		
TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB			
TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
COD_150130	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	
TDS_150129	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150129	ALKALINITY	98.8	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150129	AMMONIA-N	2.71	2.60	mg/L	350.1	104	90-110	QCS	
6010B-150206A	IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	CALCIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	MAGNESIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	POTASSIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6020_150210	ANTIMONY	0.043	0.040	mg/L	6020A	108	90-110	QCS	
	ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BARIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BERYLLIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CADMIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	COPPER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	LEAD	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	NICKEL	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SELENIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SILVER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
ZINC	0.042	0.040	mg/L	6020A	105	90-110	QCS		
COD_150130	CHEMICAL OXYGEN DEMAND	130	137	mg/L	SM5220 D	95	90-110	QCS	
I150127A	CHLORIDE	30	30	mg/L	300.0	100	90-110	QCS	
	FLUORIDE	2.42	2.5	mg/L	300.0	97	90-110	QCS	
	SULFATE	29	30	mg/L	300.0	97	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01632**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150127A	TOTAL NITRATE/NITRITE	4.89	5	mg/L	300.0	98	90-110	QCS	
TDS_150129	TOTAL DISSOLVED SOLIDS (TDS)	500	500	mg/L	SM2540 C	100	80-120	QCS	
	TOTAL DISSOLVED SOLIDS (TDS)	514	500	mg/L	SM2540 C	103	80-120	QCS	
TOC_150203	TOTAL ORGANIC CARBON	4.89	5.20	mg/L	SM5310 B	94	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
Duplicate											
310.2_150129											
	3977	ALKALINITY	205	204		mg CaCO3/l	0.5	0-20			DUP
	3977	BICARBONATE	205	204		mg CaCO3/l	0.5	0-20			DUP
	4148	ALKALINITY	375	374		mg CaCO3/l	0.3	0-20			DUP
	4148	BICARBONATE	375	374		mg CaCO3/l	0.3	0-20			DUP
	4252	ALKALINITY	26.8	27.6		mg CaCO3/l	2.9	0-20			DUP
350.1_150129											
	3424	AMMONIA-N	0.12	0.11		mg/L	8.7	0-20			DUP
	3436	AMMONIA-N	0.25	0.24		mg/L	4.1	0-20			DUP
	3977	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
	4148	AMMONIA-N	0.08	0.08		mg/L	0.0	0-20			DUP
	4196	AMMONIA-N	3.17	3.16		mg/L	0.3	0-20			DUP
6010B-150206A											
	3976	IRON	0.34	0.05		mg/L	148.7	0-20	INH		DUP
	3976	CALCIUM	60.2	58.2		mg/L	3.4	0-20			DUP
	3976	MAGNESIUM	74.4	71.6		mg/L	3.8	0-20			DUP
	3976	POTASSIUM	10.1	9.9		mg/L	2.0	0-20			DUP
	3976	SODIUM	44.3	43.0		mg/L	3.0	0-20			DUP
	4147	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	4147	CALCIUM	78.9	77.6		mg/L	1.7	0-20			DUP
	4147	MAGNESIUM	52.6	51.7		mg/L	1.7	0-20			DUP
	4147	POTASSIUM	6.7	6.5		mg/L	3.0	0-20			DUP
	4147	SODIUM	33.3	32.8		mg/L	1.5	0-20			DUP
	4420	IRON	1.74	1.74		mg/L	0.0	0-20			DUP
	4420	CALCIUM	42.8	43.0		mg/L	0.5	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	4420	MAGNESIUM	29.4	29.5	mg/L	0.3	0-20		DUP	
	4420	POTASSIUM	12.4	12.4	mg/L	0.0	0-20		DUP	
	4420	SODIUM	19.2	19.2	mg/L	0.0	0-20		DUP	
6020_150210										
	3976	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	3976	ARSENIC	0.006	0.006	mg/L	0.0	0-20		DUP	
	3976	BARIUM	0.070	0.069	mg/L	1.4	0-20		DUP	
	3976	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	CHROMIUM	0.001	0.0005	mg/L	66.7	0-20	INH	DUP	
	3976	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	3976	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	3976	LEAD	0.001	0.0003	mg/L	107.7	0-20	INH	DUP	
	3976	MANGANESE	0.020	0.019	mg/L	5.1	0-20		DUP	
	3976	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	3976	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	3976	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	ZINC	0.004	0.0046	mg/L	14.0	0-20		DUP	
	4147	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	4147	ARSENIC	0.006	0.006	mg/L	0.0	0-20		DUP	
	4147	BARIUM	0.035	0.034	mg/L	2.9	0-20		DUP	
	4147	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	4147	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	4147	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	4147	MANGANESE	0.184	0.184	mg/L	0.0	0-20		DUP	
	4147	NICKEL	0.002	0.002	mg/L	0.0	0-20		DUP	
	4147	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	4147	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	4147	VANADIUM	0.001	0.001	mg/L	0.0	0-20			DUP
	4147	ZINC	0.0024	0.003	mg/L	22.2	0-20	INH		DUP
	4420	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	4420	ARSENIC	0.040	0.041	mg/L	2.5	0-20			DUP
	4420	BARIUM	0.043	0.045	mg/L	4.5	0-20			DUP
	4420	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	CHROMIUM	0.003	0.003	mg/L	0.0	0-20			DUP
	4420	COBALT	ND	ND	mg/L	NA	0-20			DUP
	4420	COPPER	0.195	0.209	mg/L	6.9	0-20			DUP
	4420	LEAD	0.014	0.015	mg/L	6.9	0-20			DUP
	4420	MANGANESE	0.100	0.101	mg/L	1.0	0-20			DUP
	4420	NICKEL	0.003	0.003	mg/L	0.0	0-20			DUP
	4420	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	SILVER	ND	ND	mg/L	NA	0-20			DUP
	4420	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	VANADIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	ZINC	0.606	0.618	mg/L	2.0	0-20			DUP
	4429	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	4429	ARSENIC	0.005	0.005	mg/L	0.0	0-20			DUP
	4429	BARIUM	0.033	0.032	mg/L	3.1	0-20			DUP
	4429	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	CHROMIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	COBALT	ND	ND	mg/L	NA	0-20			DUP
	4429	COPPER	ND	ND	mg/L	NA	0-20			DUP
	4429	LEAD	ND	ND	mg/L	NA	0-20			DUP
	4429	MANGANESE	0.099	0.101	mg/L	2.0	0-20			DUP
	4429	NICKEL	0.002	0.002	mg/L	0.0	0-20			DUP
	4429	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	SILVER	ND	ND	mg/L	NA	0-20			DUP
	4429	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	VANADIUM	0.002	0.002	mg/L	0.0	0-20			DUP
	4429	ZINC	0.113	0.114	mg/L	0.9	0-20			DUP

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Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
COD_150130											
	3976	CHEMICAL OXYGEN DEMAND	16	14		mg/L	13.3	0-20		DUP	
	4027	CHEMICAL OXYGEN DEMAND	114	119		mg/L	4.3	0-20		DUP	
TDS_150129											
	4145	TOTAL DISSOLVED SOLIDS (TDS)	493	494		mg/L	0.2	0-10		DUP	
	4148	TOTAL DISSOLVED SOLIDS (TDS)	544	539		mg/L	0.9	0-10		DUP	
TOC_150203											
	3976	TOTAL ORGANIC CARBON	2.11	2.06		mg/L	2.4	0-20		DUP	
	4094	TOTAL ORGANIC CARBON	0.92	0.82		mg/L	11.5	0-20		DUP	
	4252	TOTAL ORGANIC CARBON	0.71	0.80		mg/L	11.9	0-20		DUP	
	4419	TOTAL ORGANIC CARBON	1.68	1.69		mg/L	0.6	0-20		DUP	
	4429	TOTAL ORGANIC CARBON	1.46	1.41		mg/L	3.5	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150129															
	3977	ALKALINITY	205	442	445	250	mg CaCO3/95	96		70-130	1.3				LFM
	3977	BICARBONATE	205	442	445	250	mg CaCO3/95	96		70-130	1.3				LFM
	4148	ALKALINITY	375	523	520	250	mg CaCO3/59	58		70-130	2.0		IM		LFM
	4148	BICARBONATE	375	523	520	250	mg CaCO3/59	58		70-130	2.0		IM		LFM
	4252	ALKALINITY	26.8	283	285	250	mg CaCO3/102	103		70-130	0.8				LFM
350.1_150129															
	3424	AMMONIA-N	0.12	1.21	1.21	1.00	mg/L	109	109	70-130	0.0	0-50			LFM
	3436	AMMONIA-N	0.25	1.36	1.34	1.00	mg/L	111	109	70-130	1.8	0-50			LFM
	3977	AMMONIA-N	ND	1.12	1.11	1.00	mg/L	112	111	70-130	0.9	0-50			LFM
	4148	AMMONIA-N	0.08	1.20	1.20	1.00	mg/L	112	112	70-130	0.0	0-50			LFM
	4196	AMMONIA-N	3.17	4.12	4.09	1.00	mg/L	95	92	70-130	3.2	0-50			LFM
6010B-150206A															
	3976	IRON	0.34	1.06		1.00	mg/L	72		75-125	NA				LFM
	3976	CALCIUM	60.2	84.6		26.0	mg/L	94		75-125	NA				LFM
	3976	MAGNESIUM	74.4	97.2		26.0	mg/L	88		75-125	NA				LFM
	3976	POTASSIUM	10.1	44.6		35.0	mg/L	99		75-125	NA				LFM
	4147	IRON	0.14	1.15		1.00	mg/L	101		75-125	NA				LFM
	4147	CALCIUM	78.9	103.1		26.0	mg/L	93		75-125	NA				LFM
	4147	MAGNESIUM	52.6	76.2		26.0	mg/L	91		75-125	NA				LFM
	4147	POTASSIUM	6.7	40.5		35.0	mg/L	97		75-125	NA				LFM
	4420	IRON	1.74	2.81		1.00	mg/L	107		75-125	NA				LFM
	4420	CALCIUM	42.8	69.0		26.0	mg/L	101		75-125	NA				LFM
	4420	MAGNESIUM	29.4	54.6		26.0	mg/L	97		75-125	NA				LFM
	4420	POTASSIUM	12.4	46.4		35.0	mg/L	97		75-125	NA				LFM
6020_150210															
	3976	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	3976	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA				LFM
	3976	BARIUM	0.070	0.121		0.050	mg/L	102		80-120	NA				LFM
	3976	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	3976	CADMIUM	ND	0.054		0.050	mg/L	108		80-120	NA				LFM
	3976	CHROMIUM	0.001	0.0505		0.050	mg/L	99		80-120	NA				LFM
	3976	COBALT	ND	0.051		0.050	mg/L	102		80-120	NA				LFM

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	3976	COPPER	ND	0.054		0.050	mg/L	108		80-120	NA				LFM
	3976	LEAD	0.001	0.051		0.050	mg/L	100		80-120	NA				LFM
	3976	MANGANESE	0.020	0.069		0.050	mg/L	98		80-120	NA				LFM
	3976	NICKEL	0.001	0.053		0.050	mg/L	104		80-120	NA				LFM
	3976	SELENIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	3976	SILVER	ND	0.041		0.050	mg/L	82		80-120	NA				LFM
	3976	THALLIUM	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	3976	VANADIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	3976	ZINC	0.004	.057		0.050	mg/L	106		80-120	NA				LFM
	4147	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA				LFM
	4147	BARIUM	0.035	0.087		0.050	mg/L	104		80-120	NA				LFM
	4147	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	CHROMIUM	ND	0.047		0.050	mg/L	94		80-120	NA				LFM
	4147	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4147	COPPER	ND	0.053		0.050	mg/L	106		80-120	NA				LFM
	4147	LEAD	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4147	MANGANESE	0.184	0.235		0.050	mg/L	102		80-120	NA				LFM
	4147	NICKEL	0.002	0.052		0.050	mg/L	100		80-120	NA				LFM
	4147	SELENIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	4147	SILVER	ND	0.038		0.050	mg/L	76		80-120	NA				LFM
	4147	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4147	VANADIUM	0.001	0.051		0.050	mg/L	100		80-120	NA				LFM
	4147	ZINC	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	ARSENIC	0.040	0.095		0.050	mg/L	110		80-120	NA				LFM
	4420	BARIUM	0.043	0.095		0.050	mg/L	104		80-120	NA				LFM
	4420	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	CHROMIUM	0.003	0.050		0.050	mg/L	94		80-120	NA				LFM
	4420	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4420	COPPER	0.195	0.262		0.050	mg/L	134		80-120	NA		IS		LFM
	4420	LEAD	0.014	0.065		0.050	mg/L	102		80-120	NA				LFM

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4420	MANGANESE	0.100	0.154	0.050	mg/L	108		80-120	NA				LFM	
	4420	NICKEL	0.003	0.053	0.050	mg/L	100		80-120	NA				LFM	
	4420	SELENIUM	ND	0.050	0.050	mg/L	100		80-120	NA				LFM	
	4420	SILVER	ND	0.045	0.050	mg/L	90		80-120	NA				LFM	
	4420	THALLIUM	ND	0.049	0.050	mg/L	98		80-120	NA				LFM	
	4420	VANADIUM	ND	0.048	0.050	mg/L	96		80-120	NA				LFM	
	4420	ZINC	0.606	0.720	0.050	mg/L	228		80-120	NA		IS		LFM	
	4429	ANTIMONY	ND	0.055	0.050	mg/L	110		80-120	NA				LFM	
	4429	ARSENIC	0.005	0.058	0.050	mg/L	106		80-120	NA				LFM	
	4429	BARIUM	0.033	0.085	0.050	mg/L	104		80-120	NA				LFM	
	4429	BERYLLIUM	ND	0.056	0.050	mg/L	112		80-120	NA				LFM	
	4429	CADMIUM	ND	0.055	0.050	mg/L	110		80-120	NA				LFM	
	4429	CHROMIUM	ND	0.047	0.050	mg/L	94		80-120	NA				LFM	
	4429	COBALT	ND	0.048	0.050	mg/L	96		80-120	NA				LFM	
	4429	COPPER	ND	0.055	0.050	mg/L	110		80-120	NA				LFM	
	4429	LEAD	ND	0.050	0.050	mg/L	100		80-120	NA				LFM	
	4429	MANGANESE	0.099	0.150	0.050	mg/L	102		80-120	NA				LFM	
	4429	NICKEL	0.002	0.052	0.050	mg/L	100		80-120	NA				LFM	
	4429	SELENIUM	ND	0.052	0.050	mg/L	104		80-120	NA				LFM	
	4429	SILVER	ND	0.041	0.050	mg/L	82		80-120	NA				LFM	
	4429	THALLIUM	ND	0.049	0.050	mg/L	98		80-120	NA				LFM	
	4429	VANADIUM	0.002	0.051	0.050	mg/L	98		80-120	NA				LFM	
	4429	ZINC	0.113	0.177	0.050	mg/L	128		80-120	NA				LFM	
8260W_150203															
	4440	1,1 - DICHLOROETHANE	2.0	5.1	5.4	4	ug/L	78	85	70-130	9.2			LFM	
	4440	1,1 - DICHLOROETHYLENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9			LFM	
	4440	1,1,1 - TRICHLOROETHANE	0.7	3.8	4.0	4	ug/L	78	83	70-130	6.3			LFM	
	4440	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	4.4	4	ug/L	103	110	70-130	7.1			LFM	
	4440	1,1,2 - TRICHLOROETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4			LFM	
	4440	1,1,2,2 - TETRACHLOROETHANE	ND	5.1	5.1	4	ug/L	128	128	70-130	0.0			LFM	
	4440	1,2 - DICHLOROBENZENE (ortho)	ND	4.8	5.1	4	ug/L	120	128	70-130	6.1			LFM	
	4440	1,2 - DICHLOROETHANE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0			LFM	
	4440	1,2 - DICHLOROPROPANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6			LFM	
	4440	1,2,3 - TRICHLOROPROPANE	ND	4.8	4.8	4	ug/L	120	120	70-130	0.0			LFM	

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Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4440	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.3	5.1	4	ug/L	108	128	70-130	17.0			LFM	
	4440	1,4 - DICHLOROBENZENE (para)	ND	4.9	5.1	4	ug/L	123	128	70-130	4.0			LFM	
	4440	BENZENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9			LFM	
	4440	BROMOCHLOROMETHANE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9			LFM	
	4440	BROMODICHLOROMETHANE	ND	3.2	3.3	4	ug/L	80	83	70-130	3.1			LFM	
	4440	BROMOFORM	ND	3.7	4.0	4	ug/L	93	100	70-130	7.8			LFM	
	4440	BROMOMETHANE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0			LFM	
	4440	CARBON TETRACHLORIDE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1			LFM	
	4440	CHLOROBENZENE	ND	4.3	4.5	4	ug/L	108	113	70-130	4.5			LFM	
	4440	CHLOROETHANE	0.5	4.3	4.2	4	ug/L	95	93	70-130	2.7			LFM	
	4440	CHLOROFORM	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6			LFM	
	4440	CHLOROMETHANE	ND	3.6	3.2	4	ug/L	90	80	70-130	11.8			LFM	
	4440	CIS - 1,2 - DICHLOROETHENE	ND	3.3	3.6	4	ug/L	83	90	70-130	8.7			LFM	
	4440	CIS - 1,3 - DICHLOROPROPENE	ND	3.0	3.1	4	ug/L	75	78	70-130	3.3			LFM	
	4440	DIBROMOCHLOROMETHANE	ND	2.9	2.9	4	ug/L	73	73	70-130	0.0			LFM	
	4440	DIBROMOMETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4440	ETHYLBENZENE	ND	4.6	4.7	4	ug/L	115	118	70-130	2.2			LFM	
	4440	M,P- XYLENE	ND	9.4	9.8	8	ug/L	118	123	70-130	4.2			LFM	
	4440	METHYLENE CHLORIDE	0.9	4.3	4.5	4	ug/L	85	90	70-130	5.7			LFM	
	4440	O - XYLENE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2			LFM	
	4440	STYRENE	ND	4.5	4.8	4	ug/L	113	120	70-130	6.5			LFM	
	4440	TETRACHLOROETHYLENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0			LFM	
	4440	TOLUENE	ND	3.4	3.4	4	ug/L	85	85	70-130	0.0			LFM	
	4440	TRANS - 1,2 - DICHLOROETHENE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0			LFM	
	4440	TRANS - 1,3 - DICHLOROPROPENE	ND	3.0	3.0	4	ug/L	75	75	70-130	0.0			LFM	
	4440	TRICHLOROETHENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0			LFM	
	4440	TRICHLOROFLUOROMETHANE	59.3	52.0	56.5	4	ug/L	-183	-70	70-130	89.1			LFM	
	4440	VINYL CHLORIDE	7.9	10.8	10.9	4	ug/L	73	75	70-130	3.4			LFM	
COD_150130															
	3976	CHEMICAL OXYGEN DEMAND	16	64	62	50	mg/L	96	92	70-130	4.3			LFM	
	4027	CHEMICAL OXYGEN DEMAND	114	167	161	50	mg/L	106	94	70-130	12.0			LFM	
SIM_150130															
	3979	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.097		0.1	ug/L	97	NA	70-130	NA			LFM	
	3979	ACRYLONITRILE (SIM)	ND	0.104		0.1	ug/L	104	NA	70-130	NA			LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
TOC_150203	3979	VINYL CHLORIDE (SIM)	ND	0.087		0.1	ug/L	87	NA	70-130	NA			LFM	
	3976	TOTAL ORGANIC CARBON	2.11	5.70		4.00	mg/L	90		70-130	NA			LFM	
	4094	TOTAL ORGANIC CARBON	0.92	4.62		4.00	mg/L	93		70-130	NA			LFM	
	4252	TOTAL ORGANIC CARBON	0.71	4.58		4.00	mg/L	97		70-130	NA			LFM	
	4419	TOTAL ORGANIC CARBON	1.68	5.44		4.00	mg/L	94		70-130	NA			LFM	
	4429	TOTAL ORGANIC CARBON	1.46	5.12		4.00	mg/L	92		70-130	NA			LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-01632

Report Date: 02/13/15

Qualifier	Definition
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST

(PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1 OF 1

FOR LAB USE ONLY

REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	REF#
ADDRESS: 2405 140TH AVE. NE STE 107	ADDRESS: PO Box 5000	CHECK REGULATORY PROGRAM
CITY: BELLEVUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	<input type="checkbox"/> SAFE DRINKING WATER ACT
ATTN: ELENA RAMIREZ	PHONE: 360-678-7338 FAX: _____	<input type="checkbox"/> CLEAN WATER ACT
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#: _____	<input type="checkbox"/> RCRA / CERCLA
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> M/C <input type="checkbox"/> A/E <input type="checkbox"/> EXPIRES _____	<input type="checkbox"/> OTHER
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	

ANALYTICAL
EDGE
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

INSTRUCTIONS

- USE ONE LINE PER SAMPLE LOCATION.
- BE SPECIFIC IN TEST REQUESTS.
- NEW LIST EACH METAL INDIVIDUALLY. NEW
- CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
- ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	ANALYSIS REQUESTED							NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT		
						Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, TDS, Fluoride	Total Alka, Bicarb	TOC			8151	
1	0115-01 Coupeville Landfill	G	GW	1/26/15	1100	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2	0115-02 Coupeville Landfill	G	GW	1/15/15	1152	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3	0115-03 Coupeville Landfill	G	GW	1/30/15	1300	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4	0115-04 Coupeville Landfill	G	GW	1/4/15	1445	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
5	0115-05 Coupeville Landfill	G	GW	1/5/15	1540	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
6	0115-05 Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	
7	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLED BY: *M. H. O'Hara* PHONE: *206-340-0792* FAX: _____

EMAIL: *mohara@scsengineers.com*

▲ TOTAL CONTAINERS *59*

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER DW- DRINKING WATER SW- SURFACE WATER GW- GROUND WATER WW- WASTE WATER S- SOIL OL- OIL OTHER _____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>M. H. O'Hara</i>	1/27/15	10:00	<i>B</i>	1-27-15	1520

EVIDENCE OF COOLING
 SAMPLES RECEIVED INTACT
 SAMPLE TEMP *4.6* C SATISFACTORY
 CUSTODY SEALS INTACT
 CHAIN OF CUSTODY & LABELS AGREE



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

February 16, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-01729 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Wednesday January 28, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS
QA Officer

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-01729**
 Project: Coupeville Landfill

Report Date: 2/16/15

Date Received: 1/28/15
 Approved by: bj,mvp,sps
 Authorized by:


 Patrick Miller, MS
 QA Officer

Sample Description: 0115-06 - Coupeville Landfill										Sample Date: 1/27/15 8:30 am		
Lab Number: 4142		Sample Comment:								Collected By: Mark O'Hare		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	67	0.1	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
16984-48-8	FLUORIDE	0.11	0.1	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
14808-79-8	SULFATE	61	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	2.21	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
E-14506	ALKALINITY	521	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	521	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	723	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	17	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.62	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	115.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	74.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	8.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	39.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.019	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Data Report

Sample Description: 0115-07 - Coupeville Landfill										Sample Date: 1/27/15 9:20 am		
Lab Number: 4143		Sample Comment:								Collected By: Mark O'Hare		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	57	0.1	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
14808-79-8	SULFATE	89	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	34	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
E-14506	ALKALINITY	448	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	448	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	854	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	21	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.67	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	138.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	82.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	6.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	29.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.038	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.070	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.009	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0115-08 - Coupeville Landfill									Sample Date: 1/27/15 10:41 am			
Lab Number: 4144			Sample Comment:						Collected By: Mark O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	34	0.1	0.0211	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
16984-48-8	FLUORIDE	0.15	0.1	0.0054	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
14808-79-8	SULFATE	16	0.2	0.0174	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/28/15	SRF	I150128A	
E-14506	ALKALINITY	354	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	354	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.03	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	436	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.05	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	67.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	42.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	6.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	25.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.234	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0115-09 - Coupeville Landfill										Sample Date: 1/27/15 12:00 pm		
Lab Number: 4145		Sample Comment:							Collected By: Mark O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	16	0.1	0.0211	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
14808-79-8	SULFATE	55	0.2	0.0174	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	5.75	0.1	0.0206	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-14506	ALKALINITY	336	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	336	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	493	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	0.83	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	97.7	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	31.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	5.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	16.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	0.004	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0115-10 - Coupeville Landfill										Sample Date: 1/27/15 12:56 pm		
Lab Number: 4146		Sample Comment:					Collected By: Mark O'Hare					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	37	0.1	0.0211	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
14808-79-8	SULFATE	35	0.2	0.0174	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-14506	ALKALINITY	279	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	279	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	398	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	0.80	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	62.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.06	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	35.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	25.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.021	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.013	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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 D.F. - Dilution Factor

Data Report

Sample Description: 0115-11 - Coupeville Landfill								Sample Date: 1/27/15 2:32 pm				
Lab Number: 4147		Sample Comment:						Collected By: Mark O'Hare				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	58	0.1	0.0211	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
16984-48-8	FLUORIDE	0.15	0.1	0.0054	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
14808-79-8	SULFATE	29	0.2	0.0174	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-14506	ALKALINITY	385	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	385	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	529	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.82	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	78.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	52.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	6.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	33.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.035	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.184	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0115-12 - Coupeville Landfill										Sample Date: 1/27/15 3:40 pm		
Lab Number: 4148		Sample Comment:					Collected By: Mark O'Hare					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	70	0.1	0.0211	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
14808-79-8	SULFATE	30	0.2	0.0174	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/29/15	SRF	I150128A	
E-14506	ALKALINITY	375	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	375	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.08	0.01	0.0031	mg/L	1.0	350.1	a	1/29/15	SPS	350.1_150129	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	544	10		mg/L	1.0	SM2540 C	a	2/3/15	SRF	TDS_150129	
E-10117	CHEMICAL OXYGEN DEMAND	17	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.86	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	76.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.47	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	53.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	7.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	35.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.085	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.219	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.010	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04148
Field ID: 0115-12
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	0.5		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04148
Field ID: 0115-12
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04147
Field ID: 0115-11
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	0.5		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04147
Field ID: 0115-11
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04146
Field ID: 0115-10
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04146
Field ID: 0115-10
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04145
Field ID: 0115-09
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04145
Field ID: 0115-09
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04144
Field ID: 0115-08
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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WSDOE Lab C567

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Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04144
Field ID: 0115-08
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04143
Field ID: 0115-07
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.5		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	5.8		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.

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D.F. - Dilution Factor.



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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04143
Field ID: 0115-07
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.073		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 D.F. - Dilution Factor.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04142
Field ID: 0115-06
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.6		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01729**
Project: Coupeville Landfill

Lab Number: 04142
Field ID: 0115-06
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/27/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/16/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.068		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150129	AMMONIA-N	2.62	2.50	mg/L	350.1	105	90-110	CAL	
6010B-150206A	CALCIUM	10.7	11	mg/L	6010B	97	90-110	CAL	
	IRON	1.03	1	mg/L	6010B	103	90-110	CAL	
	MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	POTASSIUM	9.7	10	mg/L	6010B	97	90-110	CAL	
	SODIUM	10.7	11	mg/L	6010B	97	90-110	CAL	
6020_150210	ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	ARSENIC	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	BERYLLIUM	0.00104	0.001	mg/L	6020A	104	80-120	CAL	
	CADMIUM	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	CHROMIUM	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	COBALT	0.00094	0.001	mg/L	6020A	94	80-120	CAL	
	COPPER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	LEAD	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	MANGANESE	0.00094	0.001	mg/L	6020A	94	80-120	CAL	
	NICKEL	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	SELENIUM	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	SILVER	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	THALLIUM	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	VANADIUM	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	ZINC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
I150128A	CHLORIDE	1.00	1	mg/L	300.0	100	90-110	CAL	
	FLUORIDE	0.98	1	mg/L	300.0	98	90-110	CAL	
	SULFATE	1.96	2	mg/L	300.0	98	90-110	CAL	
	TOTAL NITRATE/NITRITE	2.00	2	mg/L	300.0	100	90-110	CAL	
TOC_150203	TOTAL ORGANIC CARBON	2.54	2.50	mg/L	SM5310 B	102	90-110	CAL	
	TOTAL ORGANIC CARBON	102.1	100.0	mg/L	SM5310 B	102	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
TOC_150203	TOTAL ORGANIC CARBON	4.71	5.00	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.47	0.50	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B-150206A	CALCIUM	26.8	26	mg/L	6010B	103	85-115	LFB	
	IRON	1.05	1	mg/L	6010B	105	85-115	LFB	
	MAGNESIUM	26.4	26	mg/L	6010B	102	85-115	LFB	
	POTASSIUM	34.4	35	mg/L	6010B	98	85-115	LFB	
	SODIUM	25.9	26	mg/L	6010B	100	85-115	LFB	
6020_150210	ANTIMONY	0.042	0.040	mg/L	6020A	105	85-120	LFB	
	ARSENIC	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	BARIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	BERYLLIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CADMIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CHROMIUM	0.038	0.040	mg/L	6020A	95	85-120	LFB	
	COBALT	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	COPPER	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	LEAD	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	MANGANESE	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	NICKEL	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	SELENIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	SILVER	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	THALLIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	VANADIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
ZINC	0.042	0.040	mg/L	6020A	105	85-120	LFB		
8260W_150203	1,1 - DICHLOROETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	1,1 - DICHLOROETHYLENE	3.4	4	ug/L	8260B	85	80-120	LFB	
	1,1,1 - TRICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	1,1,1,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	1,1,2,2 - TETRACHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	1,2 - DICHLOROBENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120	LFB	
	1,2 - DICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,2,3 - TRICHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	1,2-DIBROMO-3-CHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	1,4 - DICHLOROBENZENE (para)	4.6	4	ug/L	8260B	115	80-120	LFB	
	2-BUTANONE (MEK)	8.2	10	ug/L	8260B	82	80-120	LFB	
	2-HEXANONE	8.3	10	ug/L	8260B	83	80-120	LFB	
	4-METHYL-2-PENTANONE	9.5	10	ug/L	8260B	95	80-120	LFB	
	ACETONE	8.8	10	ug/L	8260B	88	80-120	LFB	
	BENZENE	3.4	4	ug/L	8260B	85	80-120	LFB	
	BROMOCHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	BROMODICHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	BROMOFORM	3.9	4	ug/L	8260B	98	80-120	LFB	
	BROMOMETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	CARBON DISULFIDE	9.6	10	ug/L	8260B	96	80-120	LFB	
	CARBON TETRACHLORIDE	3.3	4	ug/L	8260B	83	80-120	LFB	
	CHLOROBENZENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	CHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	CHLOROFORM	3.7	4	ug/L	8260B	93	80-120	LFB	
	CHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	CIS - 1,2 - DICHLOROETHENE	3.5	4	ug/L	8260B	88	80-120	LFB	
	CIS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB	
	DIBROMOCHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120	LFB	
	DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	ETHYLBENZENE	4.4	4	ug/L	8260B	110	80-120	LFB	
	M,P- XYLENE	9.2	8	ug/L	8260B	115	80-120	LFB	
	METHYL IODIDE	8.9	10	ug/L	8260B	89	80-120	LFB	
	METHYLENE CHLORIDE	3.7	4	ug/L	8260B	93	80-120	LFB	
	O - XYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	STYRENE	4.4	4	ug/L	8260B	110	80-120	LFB	
	TETRACHLOROETHYLENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TOLUENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRANS - 1,2 - DICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRANS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150203	TRANS - 1,4 - DICHLORO-2-BUTENE	10.9	10	ug/L	8260B	109	80-120	LFB		
	TRICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB		
	TRICHLOROFUOROMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB		
	VINYL ACETATE	8.3	10	ug/L	8260B	83	80-120	LFB		
	VINYL CHLORIDE	3.9	4	ug/L	8260B	98	80-120	LFB		
COD_150202	CHEMICAL OXYGEN DEMAND	53	50	mg/L	SM5220 D	106	90-110	LFB		
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	0.213	0.2	ug/L	8260SIM	107	70-130	LFB		
	ACRYLONITRILE (SIM)	0.216	0.2	ug/L	8260SIM	108	70-130	LFB		
	VINYL CHLORIDE (SIM)	0.226	0.2	ug/L	8260SIM	113	70-130	LFB		
TOC_150203	TOTAL ORGANIC CARBON	0.91	1.00	mg/L	SM5310 B	91	90-110	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150129	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_150129	AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		LRB	
	IRON	ND		mg/L	6010B		0-0		LRB	
	MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	SODIUM	ND		mg/L	6010B		0-0		LRB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	ARSENIC	ND		mg/L	6020A		0-0		LRB	
	BARIUM	ND		mg/L	6020A		0-0		LRB	
	BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	CADMIUM	ND		mg/L	6020A		0-0		LRB	
	CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	COBALT	ND		mg/L	6020A		0-0		LRB	
	COPPER	ND		mg/L	6020A		0-0		LRB	
	LEAD	ND		mg/L	6020A		0-0		LRB	
	MANGANESE	ND		mg/L	6020A		0-0		LRB	
	NICKEL	ND		mg/L	6020A		0-0		LRB	
	SELENIUM	ND		mg/L	6020A		0-0		LRB	
	SILVER	ND		mg/L	6020A		0-0		LRB	
	THALLIUM	ND		mg/L	6020A		0-0		LRB	
	VANADIUM	ND		mg/L	6020A		0-0		LRB	
ZINC	ND		mg/L	6020A		0-0		LRB		
I150128A	CHLORIDE	ND		mg/L	300.0		0-0		LRB	
	FLUORIDE	ND		mg/L	300.0		0-0		LRB	
	SULFATE	ND		mg/L	300.0		0-0		LRB	
	TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150129	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150129	AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		MB	
	IRON	ND		mg/L	6010B		0-0		MB	
	MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	POTASSIUM	ND		mg/L	6010B		0-0		MB	
	SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		MB	
	ARSENIC	ND		mg/L	6020A		0-0		MB	
	BARIUM	ND		mg/L	6020A		0-0		MB	
	BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	CADMIUM	ND		mg/L	6020A		0-0		MB	
	CHROMIUM	ND		mg/L	6020A		0-0		MB	
	COBALT	ND		mg/L	6020A		0-0		MB	
	COPPER	ND		mg/L	6020A		0-0		MB	
	LEAD	ND		mg/L	6020A		0-0		MB	
	MANGANESE	ND		mg/L	6020A		0-0		MB	
	NICKEL	ND		mg/L	6020A		0-0		MB	
	SELENIUM	ND		mg/L	6020A		0-0		MB	
	SILVER	ND		mg/L	6020A		0-0		MB	
	THALLIUM	ND		mg/L	6020A		0-0		MB	
	VANADIUM	ND		mg/L	6020A		0-0		MB	
ZINC	0.001		mg/L	6020A		0-0		MB		
8260W_150203	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150203	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	TOLUENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0		MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0		MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0		MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0		MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0		MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0		MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0		MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0		MB	
	2-HEXANONE	ND		ug/L	8260B		0-0		MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0		MB	
	ACETONE	ND		ug/L	8260B		0-0		MB	
	BENZENE	ND		ug/L	8260B		0-0		MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0		MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0		MB	
	BROMOFORM	ND		ug/L	8260B		0-0		MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0		MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0		MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0		MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB		
1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB		
TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150203	TRICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0		MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0		MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0		MB	
COD_150202	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3		MB	
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0		MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0		MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0		MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0		MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0		MB	
TDS_150129	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150129	ALKALINITY	98.8	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150129	AMMONIA-N	2.71	2.60	mg/L	350.1	104	90-110	QCS	
6010B-150206A	IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	CALCIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	MAGNESIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	POTASSIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6020_150210	ANTIMONY	0.043	0.040	mg/L	6020A	108	90-110	QCS	
	ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BARIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BERYLLIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CADMIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	COPPER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	LEAD	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	NICKEL	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SELENIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SILVER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
ZINC	0.042	0.040	mg/L	6020A	105	90-110	QCS		
COD_150202	CHEMICAL OXYGEN DEMAND	139	137	mg/L	SM5220 D	101	90-110	QCS	
I150128A	CHLORIDE	31	30	mg/L	300.0	103	90-110	QCS	
	FLUORIDE	2.46	2.5	mg/L	300.0	98	90-110	QCS	
	SULFATE	29	30	mg/L	300.0	97	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01729**

Report Date: 02/16/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150128A	TOTAL NITRATE/NITRITE	5.00	5	mg/L	300.0	100	90-110	QCS	
TDS_150129	TOTAL DISSOLVED SOLIDS (TDS)	500	500	mg/L	SM2540 C	100	80-120	QCS	
	TOTAL DISSOLVED SOLIDS (TDS)	514	500	mg/L	SM2540 C	103	80-120	QCS	
TOC_150203	TOTAL ORGANIC CARBON	4.89	5.20	mg/L	SM5310 B	94	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
Duplicate											
310.2_150129											
	3977	ALKALINITY	205	204		mg CaCO3/l	0.5	0-20			DUP
	3977	BICARBONATE	205	204		mg CaCO3/l	0.5	0-20			DUP
	4148	ALKALINITY	375	374		mg CaCO3/l	0.3	0-20			DUP
	4148	BICARBONATE	375	374		mg CaCO3/l	0.3	0-20			DUP
	4252	ALKALINITY	26.8	27.6		mg CaCO3/l	2.9	0-20			DUP
350.1_150129											
	3424	AMMONIA-N	0.12	0.11		mg/L	8.7	0-20			DUP
	3436	AMMONIA-N	0.25	0.24		mg/L	4.1	0-20			DUP
	3977	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
	4148	AMMONIA-N	0.08	0.08		mg/L	0.0	0-20			DUP
	4196	AMMONIA-N	3.17	3.16		mg/L	0.3	0-20			DUP
6010B-150206A											
	3976	IRON	0.34	0.05		mg/L	148.7	0-20	INH		DUP
	3976	CALCIUM	60.2	58.2		mg/L	3.4	0-20			DUP
	3976	MAGNESIUM	74.4	71.6		mg/L	3.8	0-20			DUP
	3976	POTASSIUM	10.1	9.9		mg/L	2.0	0-20			DUP
	3976	SODIUM	44.3	43.0		mg/L	3.0	0-20			DUP
	4147	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	4147	CALCIUM	78.9	77.6		mg/L	1.7	0-20			DUP
	4147	MAGNESIUM	52.6	51.7		mg/L	1.7	0-20			DUP
	4147	POTASSIUM	6.7	6.5		mg/L	3.0	0-20			DUP
	4147	SODIUM	33.3	32.8		mg/L	1.5	0-20			DUP
	4420	IRON	1.74	1.74		mg/L	0.0	0-20			DUP
	4420	CALCIUM	42.8	43.0		mg/L	0.5	0-20			DUP

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Only Duplicate sample with detections are listed in this report

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Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	4420	MAGNESIUM	29.4	29.5	mg/L	0.3	0-20		DUP	
	4420	POTASSIUM	12.4	12.4	mg/L	0.0	0-20		DUP	
	4420	SODIUM	19.2	19.2	mg/L	0.0	0-20		DUP	
6020_150210										
	3976	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	3976	ARSENIC	0.006	0.006	mg/L	0.0	0-20		DUP	
	3976	BARIUM	0.070	0.069	mg/L	1.4	0-20		DUP	
	3976	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	CHROMIUM	0.001	0.0005	mg/L	66.7	0-20	INH	DUP	
	3976	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	3976	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	3976	LEAD	0.001	0.0003	mg/L	107.7	0-20	INH	DUP	
	3976	MANGANESE	0.020	0.019	mg/L	5.1	0-20		DUP	
	3976	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	3976	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	3976	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	ZINC	0.004	0.0046	mg/L	14.0	0-20		DUP	
	4147	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	4147	ARSENIC	0.006	0.006	mg/L	0.0	0-20		DUP	
	4147	BARIUM	0.035	0.034	mg/L	2.9	0-20		DUP	
	4147	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	4147	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	4147	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	4147	MANGANESE	0.184	0.184	mg/L	0.0	0-20		DUP	
	4147	NICKEL	0.002	0.002	mg/L	0.0	0-20		DUP	
	4147	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	4147	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	4147	VANADIUM	0.001	0.001	mg/L	0.0	0-20			DUP
	4147	ZINC	0.0024	0.003	mg/L	22.2	0-20	INH		DUP
	4420	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	4420	ARSENIC	0.040	0.041	mg/L	2.5	0-20			DUP
	4420	BARIUM	0.043	0.045	mg/L	4.5	0-20			DUP
	4420	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	CHROMIUM	0.003	0.003	mg/L	0.0	0-20			DUP
	4420	COBALT	ND	ND	mg/L	NA	0-20			DUP
	4420	COPPER	0.195	0.209	mg/L	6.9	0-20			DUP
	4420	LEAD	0.014	0.015	mg/L	6.9	0-20			DUP
	4420	MANGANESE	0.100	0.101	mg/L	1.0	0-20			DUP
	4420	NICKEL	0.003	0.003	mg/L	0.0	0-20			DUP
	4420	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	SILVER	ND	ND	mg/L	NA	0-20			DUP
	4420	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	VANADIUM	ND	ND	mg/L	NA	0-20			DUP
	4420	ZINC	0.606	0.618	mg/L	2.0	0-20			DUP
	4429	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	4429	ARSENIC	0.005	0.005	mg/L	0.0	0-20			DUP
	4429	BARIUM	0.033	0.032	mg/L	3.1	0-20			DUP
	4429	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	CHROMIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	COBALT	ND	ND	mg/L	NA	0-20			DUP
	4429	COPPER	ND	ND	mg/L	NA	0-20			DUP
	4429	LEAD	ND	ND	mg/L	NA	0-20			DUP
	4429	MANGANESE	0.099	0.101	mg/L	2.0	0-20			DUP
	4429	NICKEL	0.002	0.002	mg/L	0.0	0-20			DUP
	4429	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	SILVER	ND	ND	mg/L	NA	0-20			DUP
	4429	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	4429	VANADIUM	0.002	0.002	mg/L	0.0	0-20			DUP
	4429	ZINC	0.113	0.114	mg/L	0.9	0-20			DUP

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Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
COD_150202											
	4320	CHEMICAL OXYGEN DEMAND	28	29		mg/L	3.5	0-20		DUP	
	4422	CHEMICAL OXYGEN DEMAND	10	9		mg/L	10.5	0-20		DUP	
	4429	CHEMICAL OXYGEN DEMAND	13	13		mg/L	0.0	0-20		DUP	
I150128A											
	3908	CHLORIDE	48	48		mg/L	0.0	0-20		DUP	
	3908	FLUORIDE	0.57	0.57		mg/L	0.0	0-20		DUP	
	4154	FLUORIDE	0.12	0.12		mg/L	0.0	0-20		DUP	
TDS_150129											
	4145	TOTAL DISSOLVED SOLIDS (TDS)	493	494		mg/L	0.2	0-10		DUP	
	4148	TOTAL DISSOLVED SOLIDS (TDS)	544	539		mg/L	0.9	0-10		DUP	
TOC_150203											
	3976	TOTAL ORGANIC CARBON	2.11	2.06		mg/L	2.4	0-20		DUP	
	4094	TOTAL ORGANIC CARBON	0.92	0.82		mg/L	11.5	0-20		DUP	
	4252	TOTAL ORGANIC CARBON	0.71	0.80		mg/L	11.9	0-20		DUP	
	4419	TOTAL ORGANIC CARBON	1.68	1.69		mg/L	0.6	0-20		DUP	
	4429	TOTAL ORGANIC CARBON	1.46	1.41		mg/L	3.5	0-20		DUP	

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NA = Indicates %RPD could not be calculated

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
Laboratory Fortified Matrix (MS)															
310.2_150129															
	3977	ALKALINITY	205	442	445	250	mg CaCO3/95	96		70-130	1.3				LFM
	3977	BICARBONATE	205	442	445	250	mg CaCO3/95	96		70-130	1.3				LFM
	4148	ALKALINITY	375	523	520	250	mg CaCO3/59	58		70-130	2.0		IM		LFM
	4148	BICARBONATE	375	523	520	250	mg CaCO3/59	58		70-130	2.0		IM		LFM
	4252	ALKALINITY	26.8	283	285	250	mg CaCO3/102	103		70-130	0.8				LFM
350.1_150129															
	3424	AMMONIA-N	0.12	1.21	1.21	1.00	mg/L	109	109	70-130	0.0	0-50			LFM
	3436	AMMONIA-N	0.25	1.36	1.34	1.00	mg/L	111	109	70-130	1.8	0-50			LFM
	3977	AMMONIA-N	ND	1.12	1.11	1.00	mg/L	112	111	70-130	0.9	0-50			LFM
	4148	AMMONIA-N	0.08	1.20	1.20	1.00	mg/L	112	112	70-130	0.0	0-50			LFM
	4196	AMMONIA-N	3.17	4.12	4.09	1.00	mg/L	95	92	70-130	3.2	0-50			LFM
6010B-150206A															
	3976	IRON	0.34	1.06		1.00	mg/L	72		75-125	NA		INH		LFM
	3976	CALCIUM	60.2	84.6		26.0	mg/L	94		75-125	NA				LFM
	3976	MAGNESIUM	74.4	97.2		26.0	mg/L	88		75-125	NA				LFM
	3976	POTASSIUM	10.1	44.6		35.0	mg/L	99		75-125	NA				LFM
	4147	IRON	0.14	1.15		1.00	mg/L	101		75-125	NA				LFM
	4147	CALCIUM	78.9	103.1		26.0	mg/L	93		75-125	NA				LFM
	4147	MAGNESIUM	52.6	76.2		26.0	mg/L	91		75-125	NA				LFM
	4147	POTASSIUM	6.7	40.5		35.0	mg/L	97		75-125	NA				LFM
	4420	IRON	1.74	2.81		1.00	mg/L	107		75-125	NA				LFM
	4420	CALCIUM	42.8	69.0		26.0	mg/L	101		75-125	NA				LFM
	4420	MAGNESIUM	29.4	54.6		26.0	mg/L	97		75-125	NA				LFM
	4420	POTASSIUM	12.4	46.4		35.0	mg/L	97		75-125	NA				LFM
6020_150210															
	3976	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	3976	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA				LFM
	3976	BARIUM	0.070	0.121		0.050	mg/L	102		80-120	NA				LFM
	3976	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	3976	CADMIUM	ND	0.054		0.050	mg/L	108		80-120	NA				LFM
	3976	CHROMIUM	0.001	0.0505		0.050	mg/L	99		80-120	NA				LFM
	3976	COBALT	ND	0.051		0.050	mg/L	102		80-120	NA				LFM

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	3976	COPPER	ND	0.054		0.050	mg/L	108		80-120	NA				LFM
	3976	LEAD	0.001	0.051		0.050	mg/L	100		80-120	NA				LFM
	3976	MANGANESE	0.020	0.069		0.050	mg/L	98		80-120	NA				LFM
	3976	NICKEL	0.001	0.053		0.050	mg/L	104		80-120	NA				LFM
	3976	SELENIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	3976	SILVER	ND	0.041		0.050	mg/L	82		80-120	NA				LFM
	3976	THALLIUM	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	3976	VANADIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	3976	ZINC	0.004	.057		0.050	mg/L	106		80-120	NA				LFM
	4147	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA				LFM
	4147	BARIUM	0.035	0.087		0.050	mg/L	104		80-120	NA				LFM
	4147	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	CHROMIUM	ND	0.047		0.050	mg/L	94		80-120	NA				LFM
	4147	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4147	COPPER	ND	0.053		0.050	mg/L	106		80-120	NA				LFM
	4147	LEAD	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4147	MANGANESE	0.184	0.235		0.050	mg/L	102		80-120	NA				LFM
	4147	NICKEL	0.002	0.052		0.050	mg/L	100		80-120	NA				LFM
	4147	SELENIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	4147	SILVER	ND	0.038		0.050	mg/L	76		80-120	NA				LFM
	4147	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4147	VANADIUM	0.001	0.051		0.050	mg/L	100		80-120	NA				LFM
	4147	ZINC	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	ARSENIC	0.040	0.095		0.050	mg/L	110		80-120	NA				LFM
	4420	BARIUM	0.043	0.095		0.050	mg/L	104		80-120	NA				LFM
	4420	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	CHROMIUM	0.003	0.050		0.050	mg/L	94		80-120	NA				LFM
	4420	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4420	COPPER	0.195	0.262		0.050	mg/L	134		80-120	NA		IS		LFM
	4420	LEAD	0.014	0.065		0.050	mg/L	102		80-120	NA				LFM

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NA = Indicates %RPD could not be calculated

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4420	MANGANESE	0.100	0.154		0.050	mg/L	108		80-120	NA				LFM
	4420	NICKEL	0.003	0.053		0.050	mg/L	100		80-120	NA				LFM
	4420	SELENIUM	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4420	SILVER	ND	0.045		0.050	mg/L	90		80-120	NA				LFM
	4420	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4420	VANADIUM	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4420	ZINC	0.606	0.720		0.050	mg/L	228		80-120	NA		IS		LFM
	4429	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4429	ARSENIC	0.005	0.058		0.050	mg/L	106		80-120	NA				LFM
	4429	BARIUM	0.033	0.085		0.050	mg/L	104		80-120	NA				LFM
	4429	BERYLLIUM	ND	0.056		0.050	mg/L	112		80-120	NA				LFM
	4429	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4429	CHROMIUM	ND	0.047		0.050	mg/L	94		80-120	NA				LFM
	4429	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4429	COPPER	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4429	LEAD	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4429	MANGANESE	0.099	0.150		0.050	mg/L	102		80-120	NA				LFM
	4429	NICKEL	0.002	0.052		0.050	mg/L	100		80-120	NA				LFM
	4429	SELENIUM	ND	0.052		0.050	mg/L	104		80-120	NA				LFM
	4429	SILVER	ND	0.041		0.050	mg/L	82		80-120	NA				LFM
	4429	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4429	VANADIUM	0.002	0.051		0.050	mg/L	98		80-120	NA				LFM
	4429	ZINC	0.113	0.177		0.050	mg/L	128		80-120	NA				LFM
8260W_150203															
	4440	1,1 - DICHLOROETHANE	2.0	5.1	5.4	4	ug/L	78	85	70-130	9.2				LFM
	4440	1,1 - DICHLOROETHYLENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9				LFM
	4440	1,1,1 - TRICHLOROETHANE	0.7	3.8	4.0	4	ug/L	78	83	70-130	6.3				LFM
	4440	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	4.4	4	ug/L	103	110	70-130	7.1				LFM
	4440	1,1,2 - TRICHLOROETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4				LFM
	4440	1,1,2,2 - TETRACHLOROETHANE	ND	5.1	5.1	4	ug/L	128	128	70-130	0.0				LFM
	4440	1,2 - DICHLOROBENZENE (ortho)	ND	4.8	5.1	4	ug/L	120	128	70-130	6.1				LFM
	4440	1,2 - DICHLOROETHANE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0				LFM
	4440	1,2 - DICHLOROPROPANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6				LFM
	4440	1,2,3 - TRICHLOROPROPANE	ND	4.8	4.8	4	ug/L	120	120	70-130	0.0				LFM

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4440	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.3	5.1	4	ug/L	108	128	70-130	17.0			LFM	
	4440	1,4 - DICHLOROBENZENE (para)	ND	4.9	5.1	4	ug/L	123	128	70-130	4.0			LFM	
	4440	BENZENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9			LFM	
	4440	BROMOCHLOROMETHANE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9			LFM	
	4440	BROMODICHLOROMETHANE	ND	3.2	3.3	4	ug/L	80	83	70-130	3.1			LFM	
	4440	BROMOFORM	ND	3.7	4.0	4	ug/L	93	100	70-130	7.8			LFM	
	4440	BROMOMETHANE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0			LFM	
	4440	CARBON TETRACHLORIDE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1			LFM	
	4440	CHLOROBENZENE	ND	4.3	4.5	4	ug/L	108	113	70-130	4.5			LFM	
	4440	CHLOROETHANE	0.5	4.3	4.2	4	ug/L	95	93	70-130	2.7			LFM	
	4440	CHLOROFORM	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6			LFM	
	4440	CHLOROMETHANE	ND	3.6	3.2	4	ug/L	90	80	70-130	11.8			LFM	
	4440	CIS - 1,2 - DICHLOROETHENE	ND	3.3	3.6	4	ug/L	83	90	70-130	8.7			LFM	
	4440	CIS - 1,3 - DICHLOROPROPENE	ND	3.0	3.1	4	ug/L	75	78	70-130	3.3			LFM	
	4440	DIBROMOCHLOROMETHANE	ND	2.9	2.9	4	ug/L	73	73	70-130	0.0			LFM	
	4440	DIBROMOMETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4440	ETHYLBENZENE	ND	4.6	4.7	4	ug/L	115	118	70-130	2.2			LFM	
	4440	M,P- XYLENE	ND	9.4	9.8	8	ug/L	118	123	70-130	4.2			LFM	
	4440	METHYLENE CHLORIDE	0.9	4.3	4.5	4	ug/L	85	90	70-130	5.7			LFM	
	4440	O - XYLENE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2			LFM	
	4440	STYRENE	ND	4.5	4.8	4	ug/L	113	120	70-130	6.5			LFM	
	4440	TETRACHLOROETHYLENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0			LFM	
	4440	TOLUENE	ND	3.4	3.4	4	ug/L	85	85	70-130	0.0			LFM	
	4440	TRANS - 1,2 - DICHLOROETHENE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0			LFM	
	4440	TRANS - 1,3 - DICHLOROPROPENE	ND	3.0	3.0	4	ug/L	75	75	70-130	0.0			LFM	
	4440	TRICHLOROETHENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0			LFM	
	4440	TRICHLOROFLUOROMETHANE	59.3	52.0	56.5	4	ug/L	-183	-70	70-130	89.1		S	LFM	
	4440	VINYL CHLORIDE	7.9	10.8	10.9	4	ug/L	73	75	70-130	3.4			LFM	
COD_150202															
	4320	CHEMICAL OXYGEN DEMAND	28	77	71	50	mg/L	98	86	70-130	13.0			LFM	
	4422	CHEMICAL OXYGEN DEMAND	10	61	65	50	mg/L	102	110	70-130	7.5			LFM	
	4429	CHEMICAL OXYGEN DEMAND	13	68	67	50	mg/L	110	108	70-130	1.8			LFM	
I150128A															
	3908	FLUORIDE	0.57	1.51		1	mg/L	94		90-110	NA			LFM	

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				Spike Result	Spike Result			MS	MSD						
SIM_150130	4154	FLUORIDE	0.12	1.10		1	mg/L	98		90-110	NA			LFM	
	3979	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.097		0.1	ug/L	97	NA	70-130	NA			LFM	
	3979	ACRYLONITRILE (SIM)	ND	0.104		0.1	ug/L	104	NA	70-130	NA			LFM	
	3979	VINYL CHLORIDE (SIM)	ND	0.087		0.1	ug/L	87	NA	70-130	NA			LFM	
TOC_150203	3976	TOTAL ORGANIC CARBON	2.11	5.70		4.00	mg/L	90		70-130	NA			LFM	
	4094	TOTAL ORGANIC CARBON	0.92	4.62		4.00	mg/L	93		70-130	NA			LFM	
	4252	TOTAL ORGANIC CARBON	0.71	4.58		4.00	mg/L	97		70-130	NA			LFM	
	4419	TOTAL ORGANIC CARBON	1.68	5.44		4.00	mg/L	94		70-130	NA			LFM	
	4429	TOTAL ORGANIC CARBON	1.46	5.12		4.00	mg/L	92		70-130	NA			LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-01729

Report Date: 02/16/15

Qualifier	Definition
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1

OF 1

15-01729

4142, 4148



REPORT TO: SCS ENGINEERS
 ADDRESS: 2405 140TH AVE. NE STE 107
 CITY: BELLEVUE STATE: WA ZIP: 98005
 ATTN: ELENA RAMIREZ
 PHONE: 425-746-4600 FAX: 425-746-6747
 EMAIL: eramirez@scsengineers.com
 PROJECT NAME: COUPEVILLE LANDFILL

BILL TO: ISLAND COUNTY SOLID WASTE
 ADDRESS: PO BOX 5000
 CITY: Coupeville STATE: WA ZIP: 98239
 PHONE: 360-678-7338 FAX:
 P.O.#: ATTN:
 VISA M/C A/E EXPIRES /
 CARD#

CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

Wilsonville Lab (503-682-7802)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	ANALYSIS REQUESTED		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
						Total Metals	NO2/NO3, NH3, COD		
1 0115-06	Coupeville Landfill	G	GW	1/27	0850	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	*Hold Analysis
2 0115-07	Coupeville Landfill	G	GW		0920	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3 0115-08	Coupeville Landfill	G	GW		1041	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4 0115-09	Coupeville Landfill	G	GW		1200	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
5 0115-10	Coupeville Landfill	G	GW		1256	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
6 0115-11	Coupeville Landfill	G	GW		1432	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
7 0115-12	Coupeville Landfill	G	GW		1540	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
8 0115-13	Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8	
9 0115-14	Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
10 0115-15	Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

SAMPLED BY: *M. A. Blum* PHONE: *125-289-5452* FAX:
 SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER * W-WATER
 DW- DRINKING WATER SW- SURFACE WATER GW- GROUND WATER WW- WASTE WATER S-SOIL
 OL-OIL OTHER

EMAIL: *mblum@scsengineers.com* 85
 TOTAL CONTAINERS

RELINQUISHED BY: *[Signature]* DATE: *1/28/15* TIME: *1000* RECEIVED BY: *[Signature]* DATE: *1-28-15* TIME: *1300*

CUSTOMY SEALS INTACT YES NO N/A
 SAMPLE TEMP *2.4* °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

February 13, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-01811 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Thursday January 29, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS
QA Officer

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-01811**
 Project: Coupeville Landfill

Report Date: 2/13/15

Date Received: 1/29/15
 Approved by: bj,mvp,sps
 Authorized by:


 Patrick Miller, MS
 QA Officer

Sample Description: 0115-13 - Coupeville Landfill										Sample Date: 1/28/15 9:30 am		
Lab Number: 4320		Sample Comment:								Collected By: Matt O'Hare		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	107	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
16984-48-8	FLUORIDE	0.12	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
14808-79-8	SULFATE	52	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-14506	ALKALINITY	632	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	632	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	862	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	28	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	2.45	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	123.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	94.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	10.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	43.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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D.F. - Dilution Factor

Data Report

Sample Description: 0115-14 - Coupeville Landfill									Sample Date: 1/28/15 11:01 am			
Lab Number: 4321			Sample Comment:						Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	42	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
14808-79-8	SULFATE	34	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-14506	ALKALINITY	321	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	321	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	446	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	14	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.04	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	67.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	42.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	6.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	26.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.038	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.009	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.021	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0115-15 - Coupeville Landfill									Sample Date: 1/28/15 12:10 pm			
Lab Number: 4322			Sample Comment:						Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	37	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
14808-79-8	SULFATE	41	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-10128	TOTAL NITRATE/NITRITE	5.14	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-14506	ALKALINITY	542	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	542	10.0		mg CaCO3/L	2.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.10	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	704	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.44	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	140.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.20	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	50.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	6.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	27.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	0.001	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.008	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.045	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	0.005	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

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 D.F. - Dilution Factor

Data Report

Sample Description: 0115-16 - Coupeville Landfill									Sample Date: 1/28/15 12:56 pm			
Lab Number: 4323			Sample Comment:						Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	36	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
14808-79-8	SULFATE	24	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150129A	
E-14506	ALKALINITY	269	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
NA	BICARBONATE	269	5.00		mg CaCO3/L	1.0	310.2	a	1/29/15	SPS	310.2_150129	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	396	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	0.66	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	68.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.25	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	25.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	20.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.014	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.035	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.065	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	0.005	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

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 D.F. - Dilution Factor



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04323
Field ID: 0115-16
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04323
Field ID: 0115-16
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04322
Field ID: 0115-15
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.2		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04322
Field ID: 0115-15
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04321
Field ID: 0115-14
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04321
Field ID: 0115-14
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
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 D.F. - Dilution Factor.

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04320
Field ID: 0115-13
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

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WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01811**
Project: Coupeville Landfill

Lab Number: 04320
Field ID: 0115-13
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/28/15
Extraction Date: 1/30/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 1/30/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150130
Approved By: pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.030		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150205	AMMONIA-N	2.68	2.50	mg/L	350.1	107	90-110	CAL	
6010B-150206A	CALCIUM	10.7	11	mg/L	6010B	97	90-110	CAL	
	IRON	1.03	1	mg/L	6010B	103	90-110	CAL	
	MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	POTASSIUM	9.7	10	mg/L	6010B	97	90-110	CAL	
	SODIUM	10.7	11	mg/L	6010B	97	90-110	CAL	
6020_150210	ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	ARSENIC	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	BERYLLIUM	0.00104	0.001	mg/L	6020A	104	80-120	CAL	
	CADMIUM	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	CHROMIUM	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	COBALT	0.00094	0.001	mg/L	6020A	94	80-120	CAL	
	COPPER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	LEAD	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	MANGANESE	0.00094	0.001	mg/L	6020A	94	80-120	CAL	
	NICKEL	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	SELENIUM	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	SILVER	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	THALLIUM	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	VANADIUM	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	ZINC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
I150129A	CHLORIDE	1	1	mg/L	300.0	100	90-110	CAL	
	FLUORIDE	1	1	mg/L	300.0	100	90-110	CAL	
	SULFATE	2	2	mg/L	300.0	100	90-110	CAL	
	TOTAL NITRATE/NITRITE	2	2	mg/L	300.0	100	90-110	CAL	
TOC_150203	TOTAL ORGANIC CARBON	2.54	2.50	mg/L	SM5310 B	102	90-110	CAL	
	TOTAL ORGANIC CARBON	102.1	100.0	mg/L	SM5310 B	102	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
TOC_150203	TOTAL ORGANIC CARBON	4.71	5.00	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.47	0.50	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B-150206A	CALCIUM	26.8	26	mg/L	6010B	103	85-115	LFB	
	IRON	1.05	1	mg/L	6010B	105	85-115	LFB	
	MAGNESIUM	26.4	26	mg/L	6010B	102	85-115	LFB	
	POTASSIUM	34.4	35	mg/L	6010B	98	85-115	LFB	
	SODIUM	25.9	26	mg/L	6010B	100	85-115	LFB	
6020_150210	ANTIMONY	0.042	0.040	mg/L	6020A	105	85-120	LFB	
	ARSENIC	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	BARIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	BERYLLIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CADMIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CHROMIUM	0.038	0.040	mg/L	6020A	95	85-120	LFB	
	COBALT	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	COPPER	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	LEAD	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	MANGANESE	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	NICKEL	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	SELENIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	SILVER	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	THALLIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	VANADIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
ZINC	0.042	0.040	mg/L	6020A	105	85-120	LFB		
8260W_150206	1,1 - DICHLOROETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	1,1 - DICHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	1,1,1,2 - TETRACHLOROETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	1,1,2,2 - TETRACHLOROETHANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	1,2 - DICHLOROETHANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120	LFB	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150206	1,2,3 - TRICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	1,2-DIBROMO-3-CHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	1,4 - DICHLOROBENZENE (para)	4.0	4	ug/L	8260B	100	80-120		LFB	
	2-BUTANONE (MEK)	8.9	10	ug/L	8260B	89	80-120		LFB	
	2-HEXANONE	9.5	10	ug/L	8260B	95	80-120		LFB	
	4-METHYL-2-PENTANONE	9.9	10	ug/L	8260B	99	80-120		LFB	
	ACETONE	10.1	10	ug/L	8260B	101	80-120		LFB	
	BENZENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	BROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	BROMODICHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120		LFB	
	BROMOFORM	3.5	4	ug/L	8260B	88	80-120		LFB	
	BROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LE	LFB	
	CARBON DISULFIDE	9.8	10	ug/L	8260B	98	80-120		LFB	
	CARBON TETRACHLORIDE	3.7	4	ug/L	8260B	93	80-120		LFB	
	CHLOROBENZENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	CHLOROETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	CHLOROFORM	3.6	4	ug/L	8260B	90	80-120		LFB	
	CHLOROMETHANE	4.4	4	ug/L	8260B	110	80-120		LFB	
	CIS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	CIS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	DIBROMOCHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120		LFB	
	DIBROMOMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120		LFB	
	METHYL IODIDE	8.1	10	ug/L	8260B	81	80-120	LE	LFB	
	METHYLENE CHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
	O - XYLENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	STYRENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	TETRACHLOROETHYLENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	TOLUENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	TRANS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150206	TRANS - 1,4 - DICHLORO-2-BUTENE	11.9	10	ug/L	8260B	119	80-120	LFB		
	TRICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB		
	TRICHLOROFLUOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB		
	VINYL ACETATE	9.1	10	ug/L	8260B	91	80-120	LFB		
	VINYL CHLORIDE	3.6	4	ug/L	8260B	90	80-120	LFB		
COD_150202	CHEMICAL OXYGEN DEMAND	53	50	mg/L	SM5220 D	106	90-110	LFB		
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	0.213	0.2	ug/L	8260SIM	107	70-130	LFB		
	ACRYLONITRILE (SIM)	0.216	0.2	ug/L	8260SIM	108	70-130	LFB		
	VINYL CHLORIDE (SIM)	0.226	0.2	ug/L	8260SIM	113	70-130	LFB		
TOC_150203	TOTAL ORGANIC CARBON	0.91	1.00	mg/L	SM5310 B	91	90-110	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150129	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_150205	AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		LRB	
	IRON	ND		mg/L	6010B		0-0		LRB	
	MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	SODIUM	ND		mg/L	6010B		0-0		LRB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	ARSENIC	ND		mg/L	6020A		0-0		LRB	
	BARIUM	ND		mg/L	6020A		0-0		LRB	
	BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	CADMIUM	ND		mg/L	6020A		0-0		LRB	
	CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	COBALT	ND		mg/L	6020A		0-0		LRB	
	COPPER	ND		mg/L	6020A		0-0		LRB	
	LEAD	ND		mg/L	6020A		0-0		LRB	
	MANGANESE	ND		mg/L	6020A		0-0		LRB	
	NICKEL	ND		mg/L	6020A		0-0		LRB	
	SELENIUM	ND		mg/L	6020A		0-0		LRB	
	SILVER	ND		mg/L	6020A		0-0		LRB	
	THALLIUM	ND		mg/L	6020A		0-0		LRB	
	VANADIUM	ND		mg/L	6020A		0-0		LRB	
ZINC	ND		mg/L	6020A		0-0		LRB		
I150129A	CHLORIDE	ND		mg/L	300.0		0-0		LRB	
	FLUORIDE	ND		mg/L	300.0		0-0		LRB	
	SULFATE	ND		mg/L	300.0		0-0		LRB	
	TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150129	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150205	AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		MB	
	IRON	ND		mg/L	6010B		0-0		MB	
	MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	POTASSIUM	ND		mg/L	6010B		0-0		MB	
	SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		MB	
	ARSENIC	ND		mg/L	6020A		0-0		MB	
	BARIUM	ND		mg/L	6020A		0-0		MB	
	BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	CADMIUM	ND		mg/L	6020A		0-0		MB	
	CHROMIUM	ND		mg/L	6020A		0-0		MB	
	COBALT	ND		mg/L	6020A		0-0		MB	
	COPPER	ND		mg/L	6020A		0-0		MB	
	LEAD	ND		mg/L	6020A		0-0		MB	
	MANGANESE	ND		mg/L	6020A		0-0		MB	
	NICKEL	ND		mg/L	6020A		0-0		MB	
	SELENIUM	ND		mg/L	6020A		0-0		MB	
	SILVER	ND		mg/L	6020A		0-0		MB	
	THALLIUM	ND		mg/L	6020A		0-0		MB	
	VANADIUM	ND		mg/L	6020A		0-0		MB	
ZINC	0.001		mg/L	6020A		0-0		MB		
8260W_150206	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB		
VINYL ACETATE	ND		ug/L	8260B		0-0	MB		
VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB		
COD_150202	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
SIM_150130	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0			MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0			MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0			MB	
TDS_150202	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3			MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3			MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3			MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3			MB	
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0			MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150129	ALKALINITY	98.8	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150205	AMMONIA-N	2.75	2.60	mg/L	350.1	106	90-110	QCS	
6010B-150206A	IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	CALCIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	MAGNESIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	POTASSIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6020_150210	ANTIMONY	0.043	0.040	mg/L	6020A	108	90-110	QCS	
	ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BARIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BERYLLIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CADMIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	COPPER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	LEAD	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	NICKEL	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SELENIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SILVER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
ZINC	0.042	0.040	mg/L	6020A	105	90-110	QCS		
COD_150202	CHEMICAL OXYGEN DEMAND	139	137	mg/L	SM5220 D	101	90-110	QCS	
I150129A	CHLORIDE	30	30	mg/L	300.0	100	90-110	QCS	
	FLUORIDE	2.5	2.5	mg/L	300.0	100	90-110	QCS	
	SULFATE	30	30	mg/L	300.0	100	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-01811**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150129A	TOTAL NITRATE/NITRITE	5	5	mg/L	300.0	100	90-110	QCS	
TDS_150202	TOTAL DISSOLVED SOLIDS (TDS)	508	500	mg/L	SM2540 C	102	80-120	QCS	
	TOTAL DISSOLVED SOLIDS (TDS)	494	500	mg/L	SM2540 C	99	80-120	QCS	
TOC_150203	TOTAL ORGANIC CARBON	4.89	5.20	mg/L	SM5310 B	94	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
Duplicate											
310.2_150129											
	3977	ALKALINITY	205	204		mg CaCO3/l	0.5	0-20			DUP
	3977	BICARBONATE	205	204		mg CaCO3/l	0.5	0-20			DUP
	4148	ALKALINITY	375	374		mg CaCO3/l	0.3	0-20			DUP
	4148	BICARBONATE	375	374		mg CaCO3/l	0.3	0-20			DUP
	4252	ALKALINITY	26.8	27.6		mg CaCO3/l	2.9	0-20			DUP
350.1_150205											
	4416	AMMONIA-N	0.10	0.07		mg/L	35.3	0-20	INH		DUP
	4426	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
	4944	AMMONIA-N	21.9	22.1		mg/L	0.9	0-20			DUP
	5143	AMMONIA-N	0.05	0.04		mg/L	22.2	0-20	INH		DUP
	5308	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
6010B-150206A											
	3976	IRON	0.34	0.05		mg/L	148.7	0-20	INH		DUP
	3976	CALCIUM	60.2	58.2		mg/L	3.4	0-20			DUP
	3976	MAGNESIUM	74.4	71.6		mg/L	3.8	0-20			DUP
	3976	POTASSIUM	10.1	9.9		mg/L	2.0	0-20			DUP
	3976	SODIUM	44.3	43.0		mg/L	3.0	0-20			DUP
	4147	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	4147	CALCIUM	78.9	77.6		mg/L	1.7	0-20			DUP
	4147	MAGNESIUM	52.6	51.7		mg/L	1.7	0-20			DUP
	4147	POTASSIUM	6.7	6.5		mg/L	3.0	0-20			DUP
	4147	SODIUM	33.3	32.8		mg/L	1.5	0-20			DUP
	4420	IRON	1.74	1.74		mg/L	0.0	0-20			DUP
	4420	CALCIUM	42.8	43.0		mg/L	0.5	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result	Result				Qualifier	Type	Comments
	4147	VANADIUM	0.001	0.001		mg/L	0.0	0-20			DUP
	4147	ZINC	0.0024	0.003		mg/L	22.2	0-20	INH		DUP
	4420	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	4420	ARSENIC	0.040	0.041		mg/L	2.5	0-20			DUP
	4420	BARIUM	0.043	0.045		mg/L	4.5	0-20			DUP
	4420	BERYLLIUM	ND	ND		mg/L	NA	0-20			DUP
	4420	CADMIUM	ND	ND		mg/L	NA	0-20			DUP
	4420	CHROMIUM	0.003	0.003		mg/L	0.0	0-20			DUP
	4420	COBALT	ND	ND		mg/L	NA	0-20			DUP
	4420	COPPER	0.195	0.209		mg/L	6.9	0-20			DUP
	4420	LEAD	0.014	0.015		mg/L	6.9	0-20			DUP
	4420	MANGANESE	0.100	0.101		mg/L	1.0	0-20			DUP
	4420	NICKEL	0.003	0.003		mg/L	0.0	0-20			DUP
	4420	SELENIUM	ND	ND		mg/L	NA	0-20			DUP
	4420	SILVER	ND	ND		mg/L	NA	0-20			DUP
	4420	THALLIUM	ND	ND		mg/L	NA	0-20			DUP
	4420	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	4420	ZINC	0.606	0.618		mg/L	2.0	0-20			DUP
	4429	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	4429	ARSENIC	0.005	0.005		mg/L	0.0	0-20			DUP
	4429	BARIUM	0.033	0.032		mg/L	3.1	0-20			DUP
	4429	BERYLLIUM	ND	ND		mg/L	NA	0-20			DUP
	4429	CADMIUM	ND	ND		mg/L	NA	0-20			DUP
	4429	CHROMIUM	ND	ND		mg/L	NA	0-20			DUP
	4429	COBALT	ND	ND		mg/L	NA	0-20			DUP
	4429	COPPER	ND	ND		mg/L	NA	0-20			DUP
	4429	LEAD	ND	ND		mg/L	NA	0-20			DUP
	4429	MANGANESE	0.099	0.101		mg/L	2.0	0-20			DUP
	4429	NICKEL	0.002	0.002		mg/L	0.0	0-20			DUP
	4429	SELENIUM	ND	ND		mg/L	NA	0-20			DUP
	4429	SILVER	ND	ND		mg/L	NA	0-20			DUP
	4429	THALLIUM	ND	ND		mg/L	NA	0-20			DUP
	4429	VANADIUM	0.002	0.002		mg/L	0.0	0-20			DUP
	4429	ZINC	0.113	0.114		mg/L	0.9	0-20			DUP

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Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
COD_150202											
	4320	CHEMICAL OXYGEN DEMAND	28	29		mg/L	3.5	0-20		DUP	
	4422	CHEMICAL OXYGEN DEMAND	10	9		mg/L	10.5	0-20		DUP	
	4429	CHEMICAL OXYGEN DEMAND	13	13		mg/L	0.0	0-20		DUP	
I150129A											
	3005	CHLORIDE	7.00	7.00		mg/L	0.0	0-20		DUP	
	3005	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	4302	FLUORIDE	0.11	0.11		mg/L	0.0	0-20		DUP	
TDS_150202											
	4416	TOTAL DISSOLVED SOLIDS (TDS)	348	346		mg/L	0.6	0-10		DUP	
	4425	TOTAL DISSOLVED SOLIDS (TDS)	1014	1012		mg/L	0.2	0-10		DUP	
	4561	TOTAL DISSOLVED SOLIDS (TDS)	53	54		mg/L	1.9	0-10		DUP	
TOC_150203											
	3976	TOTAL ORGANIC CARBON	2.11	2.06		mg/L	2.4	0-20		DUP	
	4094	TOTAL ORGANIC CARBON	0.92	0.82		mg/L	11.5	0-20		DUP	
	4252	TOTAL ORGANIC CARBON	0.71	0.80		mg/L	11.9	0-20		DUP	
	4419	TOTAL ORGANIC CARBON	1.68	1.69		mg/L	0.6	0-20		DUP	
	4429	TOTAL ORGANIC CARBON	1.46	1.41		mg/L	3.5	0-20		DUP	

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			Result	Result				Qualifier	Type	
	4420	MAGNESIUM	29.4	29.5	mg/L	0.3	0-20		DUP	
	4420	POTASSIUM	12.4	12.4	mg/L	0.0	0-20		DUP	
	4420	SODIUM	19.2	19.2	mg/L	0.0	0-20		DUP	
6020_150210										
	3976	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	3976	ARSENIC	0.006	0.006	mg/L	0.0	0-20		DUP	
	3976	BARIUM	0.070	0.069	mg/L	1.4	0-20		DUP	
	3976	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	CHROMIUM	0.001	0.0005	mg/L	66.7	0-20	INH	DUP	
	3976	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	3976	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	3976	LEAD	0.001	0.0003	mg/L	107.7	0-20	INH	DUP	
	3976	MANGANESE	0.020	0.019	mg/L	5.1	0-20		DUP	
	3976	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	3976	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	3976	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	3976	ZINC	0.004	0.0046	mg/L	14.0	0-20		DUP	
	4147	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	4147	ARSENIC	0.006	0.006	mg/L	0.0	0-20		DUP	
	4147	BARIUM	0.035	0.034	mg/L	2.9	0-20		DUP	
	4147	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	4147	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	4147	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	4147	MANGANESE	0.184	0.184	mg/L	0.0	0-20		DUP	
	4147	NICKEL	0.002	0.002	mg/L	0.0	0-20		DUP	
	4147	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	4147	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150129															
	3977	ALKALINITY	205	442	445	250	mg CaCO3/95	96		70-130	1.3				LFM
	3977	BICARBONATE	205	442	445	250	mg CaCO3/95	96		70-130	1.3				LFM
	4148	ALKALINITY	375	523	520	250	mg CaCO3/59	58		70-130	2.0		IM		LFM
	4148	BICARBONATE	375	523	520	250	mg CaCO3/59	58		70-130	2.0		IM		LFM
	4252	ALKALINITY	26.8	283	285	250	mg CaCO3/102	103		70-130	0.8				LFM
350.1_150205															
	4416	AMMONIA-N	0.10	1.17	1.16	1.00	mg/L	107	106	70-130	0.9	0-50			LFM
	4426	AMMONIA-N	ND	1.08	1.05	1.00	mg/L	108	105	70-130	2.8	0-50			LFM
	4944	AMMONIA-N	21.9	22.5	22.4	1.00	mg/L	60	50	70-130	18.2	0-50	IS		LFM
	5143	AMMONIA-N	0.05	1.14	1.14	1.00	mg/L	109	109	70-130	0.0	0-50			LFM
	5308	AMMONIA-N	ND	1.07	1.04	1.00	mg/L	107	104	70-130	2.8	0-50			LFM
6010B-150206A															
	3976	IRON	0.34	1.06		1.00	mg/L	72		75-125	NA				LFM
	3976	CALCIUM	60.2	84.6		26.0	mg/L	94		75-125	NA				LFM
	3976	MAGNESIUM	74.4	97.2		26.0	mg/L	88		75-125	NA				LFM
	3976	POTASSIUM	10.1	44.6		35.0	mg/L	99		75-125	NA				LFM
	4147	IRON	0.14	1.15		1.00	mg/L	101		75-125	NA				LFM
	4147	CALCIUM	78.9	103.1		26.0	mg/L	93		75-125	NA				LFM
	4147	MAGNESIUM	52.6	76.2		26.0	mg/L	91		75-125	NA				LFM
	4147	POTASSIUM	6.7	40.5		35.0	mg/L	97		75-125	NA				LFM
	4420	IRON	1.74	2.81		1.00	mg/L	107		75-125	NA				LFM
	4420	CALCIUM	42.8	69.0		26.0	mg/L	101		75-125	NA				LFM
	4420	MAGNESIUM	29.4	54.6		26.0	mg/L	97		75-125	NA				LFM
	4420	POTASSIUM	12.4	46.4		35.0	mg/L	97		75-125	NA				LFM
6020_150210															
	3976	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	3976	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA				LFM
	3976	BARIUM	0.070	0.121		0.050	mg/L	102		80-120	NA				LFM
	3976	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	3976	CADMIUM	ND	0.054		0.050	mg/L	108		80-120	NA				LFM
	3976	CHROMIUM	0.001	0.0505		0.050	mg/L	99		80-120	NA				LFM
	3976	COBALT	ND	0.051		0.050	mg/L	102		80-120	NA				LFM

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Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	3976	COPPER	ND	0.054		0.050	mg/L	108		80-120	NA				LFM
	3976	LEAD	0.001	0.051		0.050	mg/L	100		80-120	NA				LFM
	3976	MANGANESE	0.020	0.069		0.050	mg/L	98		80-120	NA				LFM
	3976	NICKEL	0.001	0.053		0.050	mg/L	104		80-120	NA				LFM
	3976	SELENIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	3976	SILVER	ND	0.041		0.050	mg/L	82		80-120	NA				LFM
	3976	THALLIUM	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	3976	VANADIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	3976	ZINC	0.004	.057		0.050	mg/L	106		80-120	NA				LFM
	4147	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA				LFM
	4147	BARIUM	0.035	0.087		0.050	mg/L	104		80-120	NA				LFM
	4147	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4147	CHROMIUM	ND	0.047		0.050	mg/L	94		80-120	NA				LFM
	4147	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4147	COPPER	ND	0.053		0.050	mg/L	106		80-120	NA				LFM
	4147	LEAD	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4147	MANGANESE	0.184	0.235		0.050	mg/L	102		80-120	NA				LFM
	4147	NICKEL	0.002	0.052		0.050	mg/L	100		80-120	NA				LFM
	4147	SELENIUM	ND	0.051		0.050	mg/L	102		80-120	NA				LFM
	4147	SILVER	ND	0.038		0.050	mg/L	76		80-120	NA				LFM
	4147	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4147	VANADIUM	0.001	0.051		0.050	mg/L	100		80-120	NA				LFM
	4147	ZINC	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	ARSENIC	0.040	0.095		0.050	mg/L	110		80-120	NA				LFM
	4420	BARIUM	0.043	0.095		0.050	mg/L	104		80-120	NA				LFM
	4420	BERYLLIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4420	CHROMIUM	0.003	0.050		0.050	mg/L	94		80-120	NA				LFM
	4420	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4420	COPPER	0.195	0.262		0.050	mg/L	134		80-120	NA		IS		LFM
	4420	LEAD	0.014	0.065		0.050	mg/L	102		80-120	NA				LFM

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4420	MANGANESE	0.100	0.154		0.050	mg/L	108		80-120	NA				LFM
	4420	NICKEL	0.003	0.053		0.050	mg/L	100		80-120	NA				LFM
	4420	SELENIUM	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4420	SILVER	ND	0.045		0.050	mg/L	90		80-120	NA				LFM
	4420	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4420	VANADIUM	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4420	ZINC	0.606	0.720		0.050	mg/L	228		80-120	NA		IS		LFM
	4429	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4429	ARSENIC	0.005	0.058		0.050	mg/L	106		80-120	NA				LFM
	4429	BARIUM	0.033	0.085		0.050	mg/L	104		80-120	NA				LFM
	4429	BERYLLIUM	ND	0.056		0.050	mg/L	112		80-120	NA				LFM
	4429	CADMIUM	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4429	CHROMIUM	ND	0.047		0.050	mg/L	94		80-120	NA				LFM
	4429	COBALT	ND	0.048		0.050	mg/L	96		80-120	NA				LFM
	4429	COPPER	ND	0.055		0.050	mg/L	110		80-120	NA				LFM
	4429	LEAD	ND	0.050		0.050	mg/L	100		80-120	NA				LFM
	4429	MANGANESE	0.099	0.150		0.050	mg/L	102		80-120	NA				LFM
	4429	NICKEL	0.002	0.052		0.050	mg/L	100		80-120	NA				LFM
	4429	SELENIUM	ND	0.052		0.050	mg/L	104		80-120	NA				LFM
	4429	SILVER	ND	0.041		0.050	mg/L	82		80-120	NA				LFM
	4429	THALLIUM	ND	0.049		0.050	mg/L	98		80-120	NA				LFM
	4429	VANADIUM	0.002	0.051		0.050	mg/L	98		80-120	NA				LFM
	4429	ZINC	0.113	0.177		0.050	mg/L	128		80-120	NA				LFM
8260W_150206	4417	1,1 - DICHLOROETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6				LFM
	4417	1,1 - DICHLOROETHYLENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7				LFM
	4417	1,1,1 - TRICHLOROETHANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5				LFM
	4417	1,1,1,2 - TETRACHLOROETHANE	ND	3.9	3.7	4	ug/L	98	93	70-130	5.3				LFM
	4417	1,1,2 - TRICHLOROETHANE	ND	3.6	4.0	4	ug/L	90	100	70-130	10.5				LFM
	4417	1,1,2,2 - TETRACHLOROETHANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5				LFM
	4417	1,2 - DICHLOROBENZENE (ortho)	ND	4.0	4.0	4	ug/L	100	100	70-130	0.0				LFM
	4417	1,2 - DICHLOROETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4				LFM
	4417	1,2 - DICHLOROPROPANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6				LFM
	4417	1,2,3 - TRICHLOROPROPANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5				LFM

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4417	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.0	4.8	4	ug/L	100	120	70-130	18.2			LFM	
	4417	1,4 - DICHLOROBENZENE (para)	ND	4.1	4.1	4	ug/L	103	103	70-130	0.0			LFM	
	4417	BENZENE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4417	BROMOCHLOROMETHANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5			LFM	
	4417	BROMODICHLOROMETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4			LFM	
	4417	BROMOFORM	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1			LFM	
	4417	BROMOMETHANE	ND	2.1	2.3	4	ug/L	53	58	70-130	9.1			LFM	
	4417	CARBON TETRACHLORIDE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	CHLOROBENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6			LFM	
	4417	CHLOROETHANE	ND	4.3	3.7	4	ug/L	108	93	70-130	15.0			LFM	
	4417	CHLOROFORM	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0			LFM	
	4417	CHLOROMETHANE	ND	3.4	3.2	4	ug/L	85	80	70-130	6.1			LFM	
	4417	CIS - 1,2 - DICHLOROETHENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1			LFM	
	4417	CIS - 1,3 - DICHLOROPROPENE	ND	3.7	3.8	4	ug/L	93	95	70-130	2.7			LFM	
	4417	DIBROMOCHLOROMETHANE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7			LFM	
	4417	DIBROMOMETHANE	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0			LFM	
	4417	ETHYLBENZENE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0			LFM	
	4417	M,P- XYLENE	ND	7.8	7.5	8	ug/L	98	94	70-130	3.9			LFM	
	4417	METHYLENE CHLORIDE	ND	3.8	4.0	4	ug/L	95	100	70-130	5.1			LFM	
	4417	O - XYLENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6			LFM	
	4417	STYRENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	TETRACHLOROETHYLENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	TOLUENE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4417	TRANS - 1,2 - DICHLOROETHENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6			LFM	
	4417	TRANS - 1,3 - DICHLOROPROPENE	ND	3.7	3.9	4	ug/L	93	98	70-130	5.3			LFM	
	4417	TRICHLOROETHENE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0			LFM	
	4417	TRICHLOROFLUOROMETHANE	ND	4.0	3.2	4	ug/L	100	80	70-130	22.2			LFM	
	4417	VINYL CHLORIDE	ND	3.4	3.1	4	ug/L	85	78	70-130	9.2			LFM	
COD_150202															
	4320	CHEMICAL OXYGEN DEMAND	28	77	71	50	mg/L	98	86	70-130	13.0			LFM	
	4422	CHEMICAL OXYGEN DEMAND	10	61	65	50	mg/L	102	110	70-130	7.5			LFM	
	4429	CHEMICAL OXYGEN DEMAND	13	68	67	50	mg/L	110	108	70-130	1.8			LFM	
I150129A															
	3005	CHLORIDE	7.00	7.95		1	mg/L	95		90-110	NA			LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
SIM_150130	3005	FLUORIDE	ND	1.03		1	mg/L	103		90-110	NA			LFM	
	4302	FLUORIDE	0.11	1.08		1	mg/L	97		90-110	NA			LFM	
	3979	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.097		0.1	ug/L	97	NA	70-130	NA			LFM	
	3979	ACRYLONITRILE (SIM)	ND	0.104		0.1	ug/L	104	NA	70-130	NA			LFM	
	3979	VINYL CHLORIDE (SIM)	ND	0.087		0.1	ug/L	87	NA	70-130	NA			LFM	
TOC_150203	3976	TOTAL ORGANIC CARBON	2.11	5.70		4.00	mg/L	90		70-130	NA			LFM	
	4094	TOTAL ORGANIC CARBON	0.92	4.62		4.00	mg/L	93		70-130	NA			LFM	
	4252	TOTAL ORGANIC CARBON	0.71	4.58		4.00	mg/L	97		70-130	NA			LFM	
	4419	TOTAL ORGANIC CARBON	1.68	5.44		4.00	mg/L	94		70-130	NA			LFM	
	4429	TOTAL ORGANIC CARBON	1.46	5.12		4.00	mg/L	92		70-130	NA			LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-01811

Report Date: 02/13/15

Qualifier	Definition
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
LE	The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADEN SECTIONS)

15-01811
4320 - 4323



REPORT TO: **SCS ENGINEERS**
 ADDRESS: **2405 140TH AVE. NE STE 107**
 CITY: **BELLEVUE** STATE: **WA** ZIP: **98005**
 ATTN: **ELENA RAMIREZ**
 PHONE: **425-746-4600** FAX: **425-746-6747**
 EMAIL: **eramirez@scsengineers.com**
 PROJECT NAME: **COUPEVILLE LANDFILL**

BILL TO: **ISLAND COUNTY SOLID WASTE**
 ADDRESS: **PO Box 5000**
 CITY: **Coupeville** STATE: **WA** ZIP: **98239**
 PHONE: **360-678-7338** FAX:
 P.O.#:
 VISA M/C A/E EXPRES /
 CARD#

CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct, Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

- USE ONE LINE PER SAMPLE LOCATION.
- BE SPECIFIC IN TEST REQUESTS.
- NEW LIST EACH METAL INDIVIDUALLY. NEW
- CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
- ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals		NO2/NO3, NH3, COD		8260B		8260SIM		Chloride, Sulfate, TDS, Fluoride		Total Alka, Bicarb		TOC		8151		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1	0115-13 Coupeville Landfill	G	GW	12/8/15	0930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	*Hold Analysis
2	0115-14 Coupeville Landfill	G	GW	11/01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3	0115-15 Coupeville Landfill	G	GW	12/10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4	0115-16 Coupeville Landfill	G	GW	12/5/6		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	
5	0445-16 Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER * W-SURFACE WATER WW-WASTE WATER OL-OIL
 DW-DRINKING WATER GW-GROUND WATER S-SOIL OTHER

RELINQUISHED BY: [Signature] DATE: 1/29/15 TIME: 1000 RECEIVED BY: [Signature] DATE: 1/29/15 TIME: 1445

CUSTOMY SEALS INTACT YES NO N/A
 SAMPLE TEMP 1.6 °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

February 19, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-01876 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Friday January 30, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS
QA Officer

Enclosures: Data Report



Burlington WA
Corporate Office

Bellingham WA
Microbiology

Portland OR
Microbiology/Chemistry

1620 S Walnut St - 98233
800.755.9295 \$ 360.757.1400

805 Orchard Dr Ste 4 - 98225
360.671.0688

9150 SW Pioneer Ct Ste W- 97070
503.682.7802

February 19, 2015

Page 1 of 1

Case Narrative

Reference: **15-01876**

Lab Sample ID	Sample Information
4417	0115-18 - Coupeville Landfill
Analytical Method 8260B	Notes The matrix spike for Bromomethane was low (52.5%). Bromomethane is a gas at room temperature and may have volatilized off while the sample was being spiked. No Bromomethane was found in the field sample.
	Created by LJH

Lab Sample ID	Sample Information
4423	0115-24 - Coupeville Landfill
Notes Sample Note	Added 8151 to 4423 per Hiro - LS 2-2-15
	Created by LRS



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-01876**
 Project: Coupeville Landfill

Report Date: 2/19/15

Date Received: 1/30/15
 Approved by: bj,mvp,sps
 Authorized by:

Patrick Miller
 Patrick Miller, MS
 QA Officer

Sample Description: 0115-17 - Coupeville Landfill										Sample Date: 1/29/15 9:06 am		
Lab Number: 4416		Sample Comment:								Collected By:		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	31	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.22	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
14808-79-8	SULFATE	11	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-14506	ALKALINITY	240	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	240	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	0.10	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	348	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	23	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	3.90	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	33.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.74	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	24.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	9.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	40.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.045	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.005	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-18 - Coupeville Landfill	Sample Date: 1/29/15 10:25 am
Lab Number: 4417	Sample Comment:
	Collected By:

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	43	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
14808-79-8	SULFATE	37	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	0.45	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-14506	ALKALINITY	530	5.00		mg CaCO3/L	2.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	530	10.0		mg CaCO3/L	2.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	670	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	0.96	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	132.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	49.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	29.4	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.067	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	0.001	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.484	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. = Dilution Factor

Data Report

Sample Description: 0115-19 - Coupeville Landfill										Sample Date: 1/29/15 11:31 am		
Lab Number: 4418		Sample Comment:					Collected By:					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	25	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
14808-79-8	SULFATE	60	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	6.27	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-14506	ALKALINITY	711	10.0		mg CaCO3/L	2.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	711	10.0		mg CaCO3/L	2.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	874	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	9	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.22	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	168.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	67.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	7.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	30.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.054	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.059	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.011	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	0.009	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Sample Description: 0115-20 - Coupeville Landfill										Sample Date: 1/29/15 12:09 pm		
Lab Number: 4419		Sample Comment:					Collected By:					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	22	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
14808-79-8	SULFATE	49	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10128	TOTAL NITRATE/NITRITE	2.75	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A
E-14506	ALKALINITY	1050	25.0		mg CaCO3/L	5.0	310.2	a	2/3/15	SPS	310.2_150203
NA	BICARBONATE	1050	25.0		mg CaCO3/L	5.0	310.2	a	2/3/15	SPS	310.2_150203
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	1126	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202
E-10195	TOTAL ORGANIC CARBON	1.68	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203
7440-70-2	CALCIUM	218.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-95-4	MAGNESIUM	102.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-09-7	POTASSIUM	9.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-23-5	SODIUM	36.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIIUM	0.055	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.059	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.011	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.009	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-21 - Coupeville Landfill									Sample Date: 1/29/15 12:55 pm		
Lab Number: 4420			Sample Comment:						Collected By:		

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	35	0.1	0.0211	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
14808-79-8	SULFATE	13	0.2	0.0174	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	0.15	0.1	0.0206	mg/L	1.0	300.0	a	1/30/15	SRF	I150130A	
E-14506	ALKALINITY	237	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	237	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	0.07	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	340	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	32	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	0.90	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203
7440-70-2	CALCIUM	42.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-89-6	IRON	1.74	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7439-95-4	MAGNESIUM	29.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-09-7	POTASSIUM	12.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-23-5	SODIUM	19.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.040	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.043	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	0.195	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	0.014	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.100	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.606	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-22 - Coupeville Landfill								Sample Date: 1/29/15 1:20 pm				
Lab Number: 4421		Sample Comment:						Collected By:				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	40	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	12	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	0.15	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	323	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	323	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	0.20	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	424	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	12	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.53	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	38.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7439-95-4	MAGNESIUM	52.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-09-7	POTASSIUM	9.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-23-5	SODIUM	27.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/6/15	BJ	6010B-150206A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.0002E	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	0.0005	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.032	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.0003E	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.055	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-23 - Coupeville Landfill								Sample Date: 1/29/15 1:45 pm			
Lab Number: 4422		Sample Comment:						Collected By:			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	22	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	20	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	313	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	313	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	398	10		mg/L	1.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	0.77	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	52.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-89-6	IRON	0.45	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-95-4	MAGNESIUM	34.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-09-7	POTASSIUM	5.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-23-5	SODIUM	22.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-36-0	ANTIMONY	0.002	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.023	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.0002E	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.126	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.074	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-24 - Coupeville Landfill								Sample Date: 1/29/15 2:30 pm			
Lab Number: 4423		Sample Comment:						Collected By:			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	94	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	41	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	12	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	405	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	405	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	716	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	19	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.20	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	122.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-95-4	MAGNESIUM	46.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-23-5	SODIUM	25.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.037	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.011	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. = Dilution Factor

Data Report

7440-66-6 **ZINC** ND 0.0025 4.25E-05 mg/L 1.0 6020A/3010A a 2/10/15 MVP 6020_150210

Sample Description: 0115-25 - Coupeville Landfill									Sample Date: 1/29/15 2:45 pm			
Lab Number: 4424			Sample Comment:						Collected By:			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	94	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	41	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	12	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	404	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	404	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	702	10		mg/L	1.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	17	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.06	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	122.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-95-4	MAGNESIUM	46.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-23-5	SODIUM	25.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.037	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.011	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Sample Description: 0115-26 - Coupeville Landfill									Sample Date: 1/29/15 3:17 pm			
Lab Number: 4425			Sample Comment:						Collected By:			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	88	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

14808-79-8	SULFATE	47	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A
E-10128	TOTAL NITRATE/NITRITE	0.50	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A
E-14506	ALKALINITY	809	25.0		mg CaCO3/L	5.0	310.2	a	2/3/15	SPS	310.2_150203
NA	BICARBONATE	809	25.0		mg CaCO3/L	5.0	310.2	a	2/3/15	SPS	310.2_150203
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	1014	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202
E-10117	CHEMICAL OXYGEN DEMAND	19	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202
E-10195	TOTAL ORGANIC CARBON	1.28	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203
7440-70-2	CALCIUM	150.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7439-95-4	MAGNESIUM	98.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7440-09-7	POTASSIUM	8.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7440-23-5	SODIUM	40.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.004	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.044	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.040	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.009	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-27 - Coupeville Landfill										Sample Date: 1/29/15 3:30 pm	
Lab Number: 4426				Sample Comment:						Collected By:	

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	87	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	47	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	0.54	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	814	25.0		mg CaCO3/L	5.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	814	25.0		mg CaCO3/L	5.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	1000	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10117	CHEMICAL OXYGEN DEMAND	18	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202
E-10195	TOTAL ORGANIC CARBON	1.28	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203
7440-70-2	CALCIUM	146.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7439-95-4	MAGNESIUM	95.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7440-09-7	POTASSIUM	7.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7440-23-5	SODIUM	39.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.004	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.044	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.041	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.009	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.009	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-28 - Coupeville Landfill								Sample Date: 1/30/15 8:36 am			
Lab Number: 4427		Sample Comment:						Collected By:			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	66	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.14	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	41	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	3.72	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	377	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	377	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	560	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.60	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	80.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-89-6	IRON	0.06	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-95-4	MAGNESIUM	44.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-09-7	POTASSIUM	3.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-23-5	SODIUM	31.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	

Notes:
 ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-39-3	BARIUM	0.027	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-47-3	CHROMIUM	0.002	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	0.004	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.00035	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-29 - Coupeville Landfill								Sample Date: 1/30/15 9:00 am			
Lab Number: 4428		Sample Comment:						Collected By:			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	54	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.12	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	40	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	1.40	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	337	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	337	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	516	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	25	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.54	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	70.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-95-4	MAGNESIUM	40.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-09-7	POTASSIUM	4.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-23-5	SODIUM	28.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.022	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-50-8	COPPER	0.053	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.078	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Sample Description: 0115-34 - Coupeville Landfill	Sample Date: 1/30/15 12:35 pm
Lab Number: 4429 Sample Comment:	Collected By:

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	52	0.1	0.0211	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
16984-48-8	FLUORIDE	0.17	0.1	0.0054	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
14808-79-8	SULFATE	39	0.2	0.0174	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	1/31/15	SRF	I150130A	
E-14506	ALKALINITY	356	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
NA	BICARBONATE	356	5.00		mg CaCO3/L	1.0	310.2	a	2/3/15	SPS	310.2_150203	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	2/5/15	SPS	350.1_150205	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	526	20		mg/L	2.0	SM2540 C	a	2/6/15	SRF	TDS_150202	
E-10117	CHEMICAL OXYGEN DEMAND	13	8.0	3	mg/L	1.0	SM5220 D	a	2/2/15	MMH	COD_150202	
E-10195	TOTAL ORGANIC CARBON	1.46	0.15	0.05	mg/L	1.0	SM5310 B	a	2/5/15	BJ	TOC_150203	
7440-70-2	CALCIUM	69.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-89-6	IRON	0.33	0.050	0.0012	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7439-95-4	MAGNESIUM	43.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-09-7	POTASSIUM	5.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-23-5	SODIUM	29.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	2/10/15	BJ	6010B-150210A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-39-3	BARIUM	0.033	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7439-96-5	MANGANESE	0.099	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

Data Report

7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210
7440-66-6	ZINC	0.113	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	2/10/15	MVP	6020_150210

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04416
Field ID: 0115-17
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.035		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04429
Field ID: 0115-34
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/30/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04429
Field ID: 0115-34
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04428
Field ID: 0115-29
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/30/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04428
Field ID: 0115-29
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04427
Field ID: 0115-28
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/30/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.5	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04427
Field ID: 0115-28
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04426
Field ID: 0115-27
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04426
Field ID: 0115-27
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.439		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04425
Field ID: 0115-26
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04425
Field ID: 0115-26
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	0.401		ug/L	0.01	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04424
Field ID: 0115-25
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.8		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04424
Field ID: 0115-25
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04423
Field ID: 0115-24
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/11/15
Extraction Method: 3510C

Report Date: 2/19/15
Date Analyzed: 2/12/15
Analyst: RJK
Analytical Method: 8151A
Batch: 8151W_150211
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
50594-66-1	ACIFLUORFEN	ND		ug/L	0.1	0.1	0.06	1.00	a	
55336-06-1	TRICLOPYR	ND		ug/L	0.1	0.1	0.06	1.00	a	
94-75-7	2,4 - D	ND		ug/L	0.1	0.1	0.04	1.00	a	
94-82-6	2,4 DB	ND		ug/L	0.8	0.8	0.32	1.00	a	
93-72-1	2,4,5 - TP (SILVEX)	ND		ug/L	0.1	0.1	0.02	1.00	a	
93-76-5	2,4,5 T	ND		ug/L	0.1	0.1	0.01	1.00	a	
75-99-0	DALAPON	ND		ug/L	1.3	1.3	0.49	1.00	a	
1918-00-9	DICAMBA	8.9		ug/L	0.9	0.1	0.09	9.00	a	
120-36-5	DICHLORPROP	ND		ug/L	0.1	0.1	0.09	1.00	a	
88-85-7	DINOSEB	ND		ug/L	0.1	0.1	0.03	1.00	a	
94-74-6	MCPA	ND		ug/L	0.1	0.1	0.03	1.00	a	
7085-19-0	MCPP	ND		ug/L	0.1	0.1	0.02	1.00	a	
87-86-5	PENTACHLOROPHENOL	ND		ug/L	0.1	0.1	0.02	1.00	a	
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND		ug/L	0.5	0.5	0.08	1.00	a	
25057-89-1	BENTAZON	ND		ug/L	0.5	0.5	0.08	1.00	a	
133-90-4	CHLORAMBEN	ND		ug/L	0.2	0.2	0.03	1.00	a	
1861-32-1	TOTAL DCPA	ND		ug/L	0.1	0.1	0.06	1.00	a	
1918-02-1	PICLORAM	ND		ug/L	0.2	0.2	0.04	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04423
Field ID: 0115-24
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.3		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04423
Field ID: 0115-24
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04422
Field ID: 0115-23
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04422
Field ID: 0115-23
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04421
Field ID: 0115-22
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04421
Field ID: 0115-22
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04420
Field ID: 0115-21
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04420
Field ID: 0115-21
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04419
Field ID: 0115-20
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	0.4		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	1.0		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.8		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	24.7		ug/L	0.4	0.4	0.26	1.00	a	35.0 ug/L unpreserved

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04419
Field ID: 0115-20
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	35.0		ug/L	0.01	0.01	0.0059	1.00	a	FULL SCAN
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04418
Field ID: 0115-19
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.8		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04418
Field ID: 0115-19
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.460		ug/L	0.01	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04417
Field ID: 0115-18
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04417
Field ID: 0115-18
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.01	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.05	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01876**
Project: Coupeville Landfill

Lab Number: 04416
Field ID: 0115-17
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 1/29/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/19/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: co,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
350.1_150205	AMMONIA-N	2.68	2.50	mg/L	350.1	107	90-110		CAL	
6010B-150206A	CALCIUM	10.7	11	mg/L	6010B	97	90-110		CAL	
	IRON	1.03	1	mg/L	6010B	103	90-110		CAL	
	MAGNESIUM	10.9	11	mg/L	6010B	99	90-110		CAL	
	POTASSIUM	9.7	10	mg/L	6010B	97	90-110		CAL	
	SODIUM	10.7	11	mg/L	6010B	97	90-110		CAL	
6010B-150210A	CALCIUM	10.9	11	mg/L	6010B	99	90-110		CAL	
	IRON	1.03	1	mg/L	6010B	103	90-110		CAL	
	MAGNESIUM	11.1	11	mg/L	6010B	101	90-110		CAL	
	POTASSIUM	9.9	10	mg/L	6010B	99	90-110		CAL	
	SODIUM	11.3	11	mg/L	6010B	103	90-110		CAL	
6020_150210	ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120		CAL	
	ARSENIC	0.001	0.001	mg/L	6020A	100	80-120		CAL	
	BARIUM	0.001	0.001	mg/L	6020A	100	80-120		CAL	
	BERYLLIUM	0.00104	0.001	mg/L	6020A	104	80-120		CAL	
	CADMIUM	0.00105	0.001	mg/L	6020A	105	80-120		CAL	
	CHROMIUM	0.0009	0.001	mg/L	6020A	90	80-120		CAL	
	COBALT	0.00094	0.001	mg/L	6020A	94	80-120		CAL	
	COPPER	0.00095	0.001	mg/L	6020A	95	80-120		CAL	
	LEAD	0.00099	0.001	mg/L	6020A	99	80-120		CAL	
	MANGANESE	0.00094	0.001	mg/L	6020A	94	80-120		CAL	
	NICKEL	0.00101	0.001	mg/L	6020A	101	80-120		CAL	
	SELENIUM	0.00102	0.001	mg/L	6020A	102	80-120		CAL	
	SILVER	0.00105	0.001	mg/L	6020A	105	80-120		CAL	
	THALLIUM	0.00097	0.001	mg/L	6020A	97	80-120		CAL	
	VANADIUM	0.0011	0.001	mg/L	6020A	110	80-120		CAL	
	ZINC	0.00098	0.001	mg/L	6020A	98	80-120		CAL	
I150130A	CHLORIDE	1.03	1	mg/L	300.0	103	90-110		CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
I150130A	FLUORIDE	0.98	1	mg/L	300.0	98	90-110	CAL	
	SULFATE	2.01	2	mg/L	300.0	101	90-110	CAL	
	TOTAL NITRATE/NITRITE	1.98	2	mg/L	300.0	99	90-110	CAL	
TOC_150203	TOTAL ORGANIC CARBON	2.54	2.50	mg/L	SM5310 B	102	90-110	CAL	
	TOTAL ORGANIC CARBON	102.1	100.0	mg/L	SM5310 B	102	90-110	CAL	
	TOTAL ORGANIC CARBON	4.71	5.00	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.47	0.50	mg/L	SM5310 B	94	90-110	CAL	
	TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B-150206A	CALCIUM	26.8	26	mg/L	6010B	103	85-115	LFB	
	IRON	1.05	1	mg/L	6010B	105	85-115	LFB	
	MAGNESIUM	26.4	26	mg/L	6010B	102	85-115	LFB	
	POTASSIUM	34.4	35	mg/L	6010B	98	85-115	LFB	
	SODIUM	25.9	26	mg/L	6010B	100	85-115	LFB	
6010B-150210A	CALCIUM	23.2	26	mg/L	6010B	89	85-115	LFB	
	IRON	0.9	1	mg/L	6010B	90	85-115	LFB	
	MAGNESIUM	23.4	26	mg/L	6010B	90	85-115	LFB	
	POTASSIUM	30.6	35	mg/L	6010B	87	85-115	LFB	
	SODIUM	23.5	26	mg/L	6010B	90	85-115	LFB	
6020_150210	ANTIMONY	0.042	0.040	mg/L	6020A	105	85-120	LFB	
	ARSENIC	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	BARIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	BERYLLIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CADMIUM	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	CHROMIUM	0.038	0.040	mg/L	6020A	95	85-120	LFB	
	COBALT	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	COPPER	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	LEAD	0.040	0.040	mg/L	6020A	100	85-120	LFB	
	MANGANESE	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	NICKEL	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	SELENIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	SILVER	0.041	0.040	mg/L	6020A	103	85-120	LFB	
	THALLIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
	VANADIUM	0.039	0.040	mg/L	6020A	98	85-120	LFB	
ZINC	0.042	0.040	mg/L	6020A	105	85-120	LFB		
8151W_150211	2,4 - D	4.12	4.44	ug/L	8151A	93	60-120	LFB	
	2,4 DB	17.7	17.8	ug/L	8151A	99	49-136	LFB	
	2,4,5 - TP (SILVEX)	2.26	2.22	ug/L	8151A	102	68-122	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8151W_150211	2,4,5 T	2.22	2.22	ug/L	8151A	100	62-128		LFB	
	ACIFLUORFEN	0.66	2.22	ug/L	8151A	30	65-125	LM	LFB	
	BENTAZON	3.95	4.44	ug/L	8151A	89	67-121		LFB	
	DALAPON	25.5	28.9	ug/L	8151A	88	53-142		LFB	
	DICAMBA	2.29	2.22	ug/L	8151A	103	66-126		LFB	
	DICHLORPROP	6.24	6.66	ug/L	8151A	94	63-123		LFB	
	DINOSEB	1.95	4.44	ug/L	8151A	44	73-127	LM	LFB	
	MCPA	1.91	2.22	ug/L	8151A	86	49-121		LFB	
	MCPP	2.04	2.22	ug/L	8151A	92	48-126		LFB	
	PENTACHLOROPHENOL	2.16	2.22	ug/L	8151A	97	69-123		LFB	
	PICLORAM	1.27	2.22	ug/L	8151A	57	48-114		LFB	
	TOTAL DCPA	2.2	2.22	ug/L	8151A	99	48-168		LFB	
	TRICLOPYR	2.3	2.22	ug/L	8151A	104	70-130		LFB	
8260W_150203	1,1 - DICHLOROETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	1,1 - DICHLOROETHYLENE	3.4	4	ug/L	8260B	85	80-120		LFB	
	1,1,1 - TRICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120		LFB	
	1,1,1,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	1,1,2,2 - TETRACHLOROETHANE	4.6	4	ug/L	8260B	115	80-120		LFB	
	1,2 - DICHLOROBENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120		LFB	
	1,2 - DICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	1,2,3 - TRICHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120		LFB	
	1,2-DIBROMO-3-CHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	1,4 - DICHLOROBENZENE (para)	4.6	4	ug/L	8260B	115	80-120		LFB	
	2-BUTANONE (MEK)	8.2	10	ug/L	8260B	82	80-120		LFB	
	2-HEXANONE	8.3	10	ug/L	8260B	83	80-120		LFB	
	4-METHYL-2-PENTANONE	9.5	10	ug/L	8260B	95	80-120		LFB	
	ACETONE	8.8	10	ug/L	8260B	88	80-120		LFB	
	BENZENE	3.4	4	ug/L	8260B	85	80-120		LFB	
BROMOCHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment	
8260W_150203	BROMODICHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB			
	BROMOFORM	3.9	4	ug/L	8260B	98	80-120	LFB			
	BROMOMETHANE	3.9	4	ug/L	8260B	98	80-120	LFB			
	CARBON DISULFIDE	9.6	10	ug/L	8260B	96	80-120	LFB			
	CARBON TETRACHLORIDE	3.3	4	ug/L	8260B	83	80-120	LFB			
	CHLOROBENZENE	4.3	4	ug/L	8260B	108	80-120	LFB			
	CHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB			
	CHLOROFORM	3.7	4	ug/L	8260B	93	80-120	LFB			
	CHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB			
	CIS - 1,2 - DICHLOROETHENE	3.5	4	ug/L	8260B	88	80-120	LFB			
	CIS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB			
	DIBROMOCHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120	LFB			
	DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB			
	ETHYLBENZENE	4.4	4	ug/L	8260B	110	80-120	LFB			
	M,P- XYLENE	9.2	8	ug/L	8260B	115	80-120	LFB			
	METHYL IODIDE	8.9	10	ug/L	8260B	89	80-120	LFB			
	METHYLENE CHLORIDE	3.7	4	ug/L	8260B	93	80-120	LFB			
	O - XYLENE	4.3	4	ug/L	8260B	108	80-120	LFB			
	STYRENE	4.4	4	ug/L	8260B	110	80-120	LFB			
	TETRACHLOROETHYLENE	3.3	4	ug/L	8260B	83	80-120	LFB			
	TOLUENE	3.3	4	ug/L	8260B	83	80-120	LFB			
	TRANS - 1,2 - DICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB			
	TRANS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB			
	TRANS - 1,4 - DICHLORO-2-BUTENE	10.9	10	ug/L	8260B	109	80-120	LFB			
	TRICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB			
	TRICHLOROFLUOROMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB			
	VINYL ACETATE	8.3	10	ug/L	8260B	83	80-120	LFB			
	VINYL CHLORIDE	3.9	4	ug/L	8260B	98	80-120	LFB			
	8260W_150206	1,1 - DICHLOROETHANE	3.8	4	ug/L	8260B	95	80-120	LFB		
		1,1 - DICHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB		
1,1,1 - TRICHLOROETHANE		3.9	4	ug/L	8260B	98	80-120	LFB			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	
			Value	Units					Qualifier	Type
8260W_150206	1,1,1,2 - TETRACHLOROETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	1,1,2,2 - TETRACHLOROETHANE	4.0	4	ug/L	8260B	100	80-120		LFB	
	1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120		LFB	
	1,2 - DICHLOROETHANE	4.0	4	ug/L	8260B	100	80-120		LFB	
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	1,2,3 - TRICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	1,2-DIBROMO-3-CHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	1,4 - DICHLOROBENZENE (para)	4.0	4	ug/L	8260B	100	80-120		LFB	
	2-BUTANONE (MEK)	8.9	10	ug/L	8260B	89	80-120		LFB	
	2-HEXANONE	9.5	10	ug/L	8260B	95	80-120		LFB	
	4-METHYL-2-PENTANONE	9.9	10	ug/L	8260B	99	80-120		LFB	
	ACETONE	10.1	10	ug/L	8260B	101	80-120		LFB	
	BENZENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	BROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	BROMODICHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120		LFB	
	BROMOFORM	3.5	4	ug/L	8260B	88	80-120		LFB	
	BROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LE	LFB	
	CARBON DISULFIDE	9.8	10	ug/L	8260B	98	80-120		LFB	
	CARBON TETRACHLORIDE	3.7	4	ug/L	8260B	93	80-120		LFB	
	CHLOROBENZENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	CHLOROETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	CHLOROFORM	3.6	4	ug/L	8260B	90	80-120		LFB	
	CHLOROMETHANE	4.4	4	ug/L	8260B	110	80-120		LFB	
	CIS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	CIS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	DIBROMOCHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120		LFB	
	DIBROMOMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120		LFB	
METHYL IODIDE	8.1	10	ug/L	8260B	81	80-120	LE	LFB		
METHYLENE CHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
8260W_150206	O - XYLENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	STYRENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	TETRACHLOROETHYLENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	TOLUENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	TRANS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	11.9	10	ug/L	8260B	119	80-120	LFB	
	TRICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	TRICHLOROFLUOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	VINYL ACETATE	9.1	10	ug/L	8260B	91	80-120	LFB	
	VINYL CHLORIDE	3.6	4	ug/L	8260B	90	80-120	LFB	
COD_150202	CHEMICAL OXYGEN DEMAND	53	50	mg/L	SM5220 D	106	90-110	LFB	
SIM_150202	1,2 - DIBROMOETHANE (EDB SIM)	0.222	0.2	ug/L	8260SIM	111	70-130	LFB	
	ACRYLONITRILE (SIM)	0.224	0.2	ug/L	8260SIM	112	70-130	LFB	
	VINYL CHLORIDE (SIM)	0.22	0.2	ug/L	8260SIM	110	70-130	LFB	
	VINYL CHLORIDE (SIM)	3.9	4	ug/L	8260SIM	98	70-130	LFB	
TOC_150203	TOTAL ORGANIC CARBON	0.91	1.00	mg/L	SM5310 B	91	90-110	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150203	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_150205	AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		LRB	
	IRON	ND		mg/L	6010B		0-0		LRB	
	MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	SODIUM	ND		mg/L	6010B		0-0		LRB	
6010B-150210A	CALCIUM	ND		mg/L	6010B		0-0		LRB	
	IRON	ND		mg/L	6010B		0-0		LRB	
	MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	SODIUM	ND		mg/L	6010B		0-0		LRB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	ARSENIC	ND		mg/L	6020A		0-0		LRB	
	BARIUM	ND		mg/L	6020A		0-0		LRB	
	BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	CADMIUM	ND		mg/L	6020A		0-0		LRB	
	CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	COBALT	ND		mg/L	6020A		0-0		LRB	
	COPPER	ND		mg/L	6020A		0-0		LRB	
	LEAD	ND		mg/L	6020A		0-0		LRB	
	MANGANESE	ND		mg/L	6020A		0-0		LRB	
	NICKEL	ND		mg/L	6020A		0-0		LRB	
	SELENIUM	ND		mg/L	6020A		0-0		LRB	
	SILVER	ND		mg/L	6020A		0-0		LRB	
	THALLIUM	ND		mg/L	6020A		0-0		LRB	
	VANADIUM	ND		mg/L	6020A		0-0		LRB	
	ZINC	ND		mg/L	6020A		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150130A	CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	SULFATE	ND		mg/L	300.0		0-0	LRB	
	TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150203	ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150205	AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B-150206A	CALCIUM	ND		mg/L	6010B		0-0		MB	
	IRON	ND		mg/L	6010B		0-0		MB	
	MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	POTASSIUM	ND		mg/L	6010B		0-0		MB	
	SODIUM	ND		mg/L	6010B		0-0		MB	
6010B-150210A	CALCIUM	ND		mg/L	6010B		0-0		MB	
	IRON	ND		mg/L	6010B		0-0		MB	
	MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	POTASSIUM	ND		mg/L	6010B		0-0		MB	
	SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150210	ANTIMONY	ND		mg/L	6020A		0-0		MB	
	ARSENIC	ND		mg/L	6020A		0-0		MB	
	BARIUM	ND		mg/L	6020A		0-0		MB	
	BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	CADMIUM	ND		mg/L	6020A		0-0		MB	
	CHROMIUM	ND		mg/L	6020A		0-0		MB	
	COBALT	ND		mg/L	6020A		0-0		MB	
	COPPER	ND		mg/L	6020A		0-0		MB	
	LEAD	ND		mg/L	6020A		0-0		MB	
	MANGANESE	ND		mg/L	6020A		0-0		MB	
	NICKEL	ND		mg/L	6020A		0-0		MB	
	SELENIUM	ND		mg/L	6020A		0-0		MB	
	SILVER	ND		mg/L	6020A		0-0		MB	
	THALLIUM	ND		mg/L	6020A		0-0		MB	
	VANADIUM	ND		mg/L	6020A		0-0		MB	
	ZINC	0.001		mg/L	6020A		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8151W_150211	2,4 - D	ND		ug/L	8151A		0-0	MB	
	2,4 DB	ND		ug/L	8151A		0-0	MB	
	2,4,5 - TP (SILVEX)	ND		ug/L	8151A		0-0	MB	
	2,4,5 T	ND		ug/L	8151A		0-0	MB	
	ACIFLUORFEN	ND		ug/L	8151A		0-0	MB	
	BENTAZON	ND		ug/L	8151A		0-0	MB	
	DALAPON	ND		ug/L	8151A		0-0	MB	
	DICAMBA	ND		ug/L	8151A		0-0	MB	
	DICHLORPROP	ND		ug/L	8151A		0-0	MB	
	DINOSEB	ND		ug/L	8151A		0-0	MB	
	MCPA	ND		ug/L	8151A		0-0	MB	
	MCPP	ND		ug/L	8151A		0-0	MB	
	PENTACHLOROPHENOL	ND		ug/L	8151A		0-0	MB	
	PICLORAM	ND		ug/L	8151A		0-0	MB	
	TOTAL DCPA	ND		ug/L	8151A		0-0	MB	
	TRICLOPYR	ND		ug/L	8151A		0-0	MB	
8260W_150203	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLORO BENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150203	BROMOFORM	ND		ug/L	8260B		0-0		MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0		MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0		MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0		MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0		MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	CHLOROFORM	ND		ug/L	8260B		0-0		MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0		MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0		MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0		MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0		MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0		MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0		MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0		MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0		MB	
	O - XYLENE	ND		ug/L	8260B		0-0		MB	
	STYRENE	ND		ug/L	8260B		0-0		MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	TOLUENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0		MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0		MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0		MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0		MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0		MB	
8260W_150206	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB		
COD_150202	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
SIM_150202	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
SIM_150202	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0		MB	
TDS_150202	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TOC_150203	TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150203	ALKALINITY	99.2	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150205	AMMONIA-N	2.75	2.60	mg/L	350.1	106	90-110	QCS	
6010B-150206A	IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	CALCIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	MAGNESIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	POTASSIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6010B-150210A	IRON	2.03	2	mg/L	6010B	102	90-110	QCS	
	CALCIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	MAGNESIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	POTASSIUM	20	20	mg/L	6010B	100	90-110	QCS	
	SODIUM	20.5	20	mg/L	6010B	103	90-110	QCS	
6020_150210	ANTIMONY	0.043	0.040	mg/L	6020A	108	90-110	QCS	
	ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BARIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	BERYLLIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CADMIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	COPPER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	LEAD	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	NICKEL	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SELENIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	SILVER	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
ZINC	0.042	0.040	mg/L	6020A	105	90-110	QCS		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-01876**

Report Date: 02/19/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
COD_150202	CHEMICAL OXYGEN DEMAND	139	137	mg/L	SM5220 D	101	90-110	QCS	
I150130A	CHLORIDE	31	30	mg/L	300.0	103	90-110	QCS	
	FLUORIDE	2.46	2.5	mg/L	300.0	98	90-110	QCS	
	SULFATE	29	30	mg/L	300.0	97	90-110	QCS	
	TOTAL NITRATE/NITRITE	4.97	5	mg/L	300.0	99	90-110	QCS	
TDS_150202	TOTAL DISSOLVED SOLIDS (TDS)	508	500	mg/L	SM2540 C	102	80-120	QCS	
	TOTAL DISSOLVED SOLIDS (TDS)	494	500	mg/L	SM2540 C	99	80-120	QCS	
TOC_150203	TOTAL ORGANIC CARBON	4.89	5.20	mg/L	SM5310 B	94	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
Duplicate											
310.2_150203											
	4419	ALKALINITY	1050	1050		mg CaCO3/l	0.0	0-20			DUP
	4419	BICARBONATE	1050	1050		mg CaCO3/l	0.0	0-20			DUP
	4429	ALKALINITY	356	356		mg CaCO3/l	0.0	0-20			DUP
	4429	BICARBONATE	356	356		mg CaCO3/l	0.0	0-20			DUP
350.1_150205											
	4416	AMMONIA-N	0.10	0.07		mg/L	35.3	0-20	INH		DUP
	4426	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
	4944	AMMONIA-N	21.9	22.1		mg/L	0.9	0-20			DUP
	5143	AMMONIA-N	0.05	0.04		mg/L	22.2	0-20	INH		DUP
	5308	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
6010B-150206A											
	3976	IRON	0.34	0.05		mg/L	148.7	0-20	INH		DUP
	3976	CALCIUM	60.2	58.2		mg/L	3.4	0-20			DUP
	3976	MAGNESIUM	74.4	71.6		mg/L	3.8	0-20			DUP
	3976	POTASSIUM	10.1	9.9		mg/L	2.0	0-20			DUP
	3976	SODIUM	44.3	43.0		mg/L	3.0	0-20			DUP
	4147	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	4147	CALCIUM	78.9	77.6		mg/L	1.7	0-20			DUP
	4147	MAGNESIUM	52.6	51.7		mg/L	1.7	0-20			DUP
	4147	POTASSIUM	6.7	6.5		mg/L	3.0	0-20			DUP
	4147	SODIUM	33.3	32.8		mg/L	1.5	0-20			DUP
	4420	IRON	1.74	1.74		mg/L	0.0	0-20			DUP
	4420	CALCIUM	42.8	43.0		mg/L	0.5	0-20			DUP
	4420	MAGNESIUM	29.4	29.5		mg/L	0.3	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	4420	POTASSIUM	12.4	12.4		mg/L	0.0	0-20		DUP	
	4420	SODIUM	19.2	19.2		mg/L	0.0	0-20		DUP	
6010B-150210A											
	4429	IRON	0.33	0.33		mg/L	0.0	0-20		DUP	
	4429	CALCIUM	69.1	68.6		mg/L	0.7	0-20		DUP	
	4429	MAGNESIUM	43.2	42.7		mg/L	1.2	0-20		DUP	
	4429	POTASSIUM	5.6	5.5		mg/L	1.8	0-20		DUP	
	4429	SODIUM	29.1	28.8		mg/L	1.0	0-20		DUP	
6020_150210											
	3976	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	3976	ARSENIC	0.006	0.006		mg/L	0.0	0-20		DUP	
	3976	BARIUM	0.070	0.069		mg/L	1.4	0-20		DUP	
	3976	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	3976	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	3976	CHROMIUM	0.001	0.0005		mg/L	66.7	0-20	INH	DUP	
	3976	COBALT	ND	ND		mg/L	NA	0-20		DUP	
	3976	COPPER	ND	ND		mg/L	NA	0-20		DUP	
	3976	LEAD	0.001	0.0003		mg/L	107.7	0-20	INH	DUP	
	3976	MANGANESE	0.020	0.019		mg/L	5.1	0-20		DUP	
	3976	NICKEL	0.001	0.001		mg/L	0.0	0-20		DUP	
	3976	SELENIUM	ND	ND		mg/L	NA	0-20		DUP	
	3976	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	3976	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	3976	VANADIUM	ND	ND		mg/L	NA	0-20		DUP	
	3976	ZINC	0.004	0.0046		mg/L	14.0	0-20		DUP	
	4147	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	4147	ARSENIC	0.006	0.006		mg/L	0.0	0-20		DUP	
	4147	BARIUM	0.035	0.034		mg/L	2.9	0-20		DUP	
	4147	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	4147	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	4147	CHROMIUM	ND	ND		mg/L	NA	0-20		DUP	
	4147	COBALT	ND	ND		mg/L	NA	0-20		DUP	
	4147	COPPER	ND	ND		mg/L	NA	0-20		DUP	
	4147	LEAD	ND	ND		mg/L	NA	0-20		DUP	

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Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	4147	MANGANESE	0.184	0.184	mg/L	0.0	0-20		DUP	
	4147	NICKEL	0.002	0.002	mg/L	0.0	0-20		DUP	
	4147	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	4147	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4147	VANADIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	4147	ZINC	0.0024	0.003	mg/L	22.2	0-20	INH	DUP	
	4420	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	4420	ARSENIC	0.040	0.041	mg/L	2.5	0-20		DUP	
	4420	BARIUM	0.043	0.045	mg/L	4.5	0-20		DUP	
	4420	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4420	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4420	CHROMIUM	0.003	0.003	mg/L	0.0	0-20		DUP	
	4420	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	4420	COPPER	0.195	0.209	mg/L	6.9	0-20		DUP	
	4420	LEAD	0.014	0.015	mg/L	6.9	0-20		DUP	
	4420	MANGANESE	0.100	0.101	mg/L	1.0	0-20		DUP	
	4420	NICKEL	0.003	0.003	mg/L	0.0	0-20		DUP	
	4420	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	4420	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	4420	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4420	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	4420	ZINC	0.606	0.618	mg/L	2.0	0-20		DUP	
	4429	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	4429	ARSENIC	0.005	0.005	mg/L	0.0	0-20		DUP	
	4429	BARIUM	0.033	0.032	mg/L	3.1	0-20		DUP	
	4429	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	4429	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4429	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	4429	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	4429	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	4429	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	4429	MANGANESE	0.099	0.101	mg/L	2.0	0-20		DUP	
	4429	NICKEL	0.002	0.002	mg/L	0.0	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	4429	SELENIUM	ND	ND		mg/L	NA	0-20		DUP	
	4429	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	4429	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	4429	VANADIUM	0.002	0.002		mg/L	0.0	0-20		DUP	
	4429	ZINC	0.113	0.114		mg/L	0.9	0-20		DUP	
8151W_150211											
	4423	DICAMBA	8.9	8.5	E	ug/L	4.6	0-35		DUP	
COD_150202											
	4320	CHEMICAL OXYGEN DEMAND	28	29		mg/L	3.5	0-20		DUP	
	4422	CHEMICAL OXYGEN DEMAND	10	9		mg/L	10.5	0-20		DUP	
	4429	CHEMICAL OXYGEN DEMAND	13	13		mg/L	0.0	0-20		DUP	
1150130A											
	3779	CHLORIDE	47	47		mg/L	0.0	0-20		DUP	
	3780	CHLORIDE	41	41		mg/L	0.0	0-20		DUP	
	4423	CHLORIDE	94	94		mg/L	0.0	0-20		DUP	
	4423	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	4423	SULFATE	41	41		mg/L	0.0	0-20		DUP	
	4423	TOTAL NITRATE/NITRITE	12	12		mg/L	0.0	0-20		DUP	
TDS_150202											
	4416	TOTAL DISSOLVED SOLIDS (TDS)	348	346		mg/L	0.6	0-10		DUP	
	4425	TOTAL DISSOLVED SOLIDS (TDS)	1014	1012		mg/L	0.2	0-10		DUP	
	4561	TOTAL DISSOLVED SOLIDS (TDS)	53	54		mg/L	1.9	0-10		DUP	
TOC_150203											
	3976	TOTAL ORGANIC CARBON	2.11	2.06		mg/L	2.4	0-20		DUP	
	4094	TOTAL ORGANIC CARBON	0.92	0.82		mg/L	11.5	0-20		DUP	
	4252	TOTAL ORGANIC CARBON	0.71	0.80		mg/L	11.9	0-20		DUP	
	4419	TOTAL ORGANIC CARBON	1.68	1.69		mg/L	0.6	0-20		DUP	
	4429	TOTAL ORGANIC CARBON	1.46	1.41		mg/L	3.5	0-20		DUP	

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NA = Indicates %RPD could not be calculated

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150203															
	4419	ALKALINITY	1050	1210	1200	250	mg CaCO3/64	60		70-130	6.5	0-20	IS	LFM	
	4419	BICARBONATE	1050	1210	1200	250	mg CaCO3/64	60		70-130	6.5	0-20	IS	LFM	
	4429	ALKALINITY	356	573	562	250	mg CaCO3/87	82		70-130	5.2	0-20		LFM	
	4429	BICARBONATE	356	573	562	250	mg CaCO3/87	82		70-130	5.2	0-20		LFM	
350.1_150205															
	4416	AMMONIA-N	0.10	1.17	1.16	1.00	mg/L	107	106	70-130	0.9	0-20		LFM	
	4426	AMMONIA-N	ND	1.08	1.05	1.00	mg/L	108	105	70-130	2.8	0-20		LFM	
	4944	AMMONIA-N	21.9	22.5	22.4	1.00	mg/L	60	50	70-130	18.2	0-20	IS	LFM	
	5143	AMMONIA-N	0.05	1.14	1.14	1.00	mg/L	109	109	70-130	0.0	0-20		LFM	
	5308	AMMONIA-N	ND	1.07	1.04	1.00	mg/L	107	104	70-130	2.8	0-20		LFM	
6010B-150206A															
	3976	IRON	0.34	1.06		1.00	mg/L	72		75-125	NA	0-20	INH	LFM	
	3976	CALCIUM	60.2	84.6		26.0	mg/L	94		75-125	NA	0-20		LFM	
	3976	MAGNESIUM	74.4	97.2		26.0	mg/L	88		75-125	NA	0-20		LFM	
	3976	POTASSIUM	10.1	44.6		35.0	mg/L	99		75-125	NA	0-20		LFM	
	4147	IRON	0.14	1.15		1.00	mg/L	101		75-125	NA	0-20		LFM	
	4147	CALCIUM	78.9	103.1		26.0	mg/L	93		75-125	NA	0-20		LFM	
	4147	MAGNESIUM	52.6	76.2		26.0	mg/L	91		75-125	NA	0-20		LFM	
	4147	POTASSIUM	6.7	40.5		35.0	mg/L	97		75-125	NA	0-20		LFM	
	4420	IRON	1.74	2.81		1.00	mg/L	107		75-125	NA	0-20		LFM	
	4420	CALCIUM	42.8	69.0		26.0	mg/L	101		75-125	NA	0-20		LFM	
	4420	MAGNESIUM	29.4	54.6		26.0	mg/L	97		75-125	NA	0-20		LFM	
	4420	POTASSIUM	12.4	46.4		35.0	mg/L	97		75-125	NA	0-20		LFM	
6010B-150210A															
	4429	IRON	0.33	1.25		1.00	mg/L	92		75-125	NA	0-20		LFM	
	4429	CALCIUM	69.1	91.0		26.0	mg/L	84		75-125	NA	0-20		LFM	
	4429	MAGNESIUM	43.2	65.1		26.0	mg/L	84		75-125	NA	0-20		LFM	
	4429	POTASSIUM	5.6	35.8		35.0	mg/L	86		75-125	NA	0-20		LFM	
6020_150210															
	3976	ANTIMONY	ND	0.055		0.050	mg/L	110		80-120	NA	0-20		LFM	
	3976	ARSENIC	0.006	0.058		0.050	mg/L	104		80-120	NA	0-20		LFM	
	3976	BARIUM	0.070	0.121		0.050	mg/L	102		80-120	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	3976	BERYLLIUM	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	3976	CADMIUM	ND	0.054		0.050	mg/L	108			80-120	NA	0-20		LFM	
	3976	CHROMIUM	0.001	0.0505		0.050	mg/L	99			80-120	NA	0-20		LFM	
	3976	COBALT	ND	0.051		0.050	mg/L	102			80-120	NA	0-20		LFM	
	3976	COPPER	ND	0.054		0.050	mg/L	108			80-120	NA	0-20		LFM	
	3976	LEAD	0.001	0.051		0.050	mg/L	100			80-120	NA	0-20		LFM	
	3976	MANGANESE	0.020	0.069		0.050	mg/L	98			80-120	NA	0-20		LFM	
	3976	NICKEL	0.001	0.053		0.050	mg/L	104			80-120	NA	0-20		LFM	
	3976	SELENIUM	ND	0.051		0.050	mg/L	102			80-120	NA	0-20		LFM	
	3976	SILVER	ND	0.041		0.050	mg/L	82			80-120	NA	0-20		LFM	
	3976	THALLIUM	ND	0.050		0.050	mg/L	100			80-120	NA	0-20		LFM	
	3976	VANADIUM	ND	0.051		0.050	mg/L	102			80-120	NA	0-20		LFM	
	3976	ZINC	0.004	.057		0.050	mg/L	106			80-120	NA	0-20		LFM	
	4147	ANTIMONY	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4147	ARSENIC	0.006	0.058		0.050	mg/L	104			80-120	NA	0-20		LFM	
	4147	BARIUM	0.035	0.087		0.050	mg/L	104			80-120	NA	0-20		LFM	
	4147	BERYLLIUM	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4147	CADMIUM	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4147	CHROMIUM	ND	0.047		0.050	mg/L	94			80-120	NA	0-20		LFM	
	4147	COBALT	ND	0.048		0.050	mg/L	96			80-120	NA	0-20		LFM	
	4147	COPPER	ND	0.053		0.050	mg/L	106			80-120	NA	0-20		LFM	
	4147	LEAD	ND	0.050		0.050	mg/L	100			80-120	NA	0-20		LFM	
	4147	MANGANESE	0.184	0.235		0.050	mg/L	102			80-120	NA	0-20		LFM	
	4147	NICKEL	0.002	0.052		0.050	mg/L	100			80-120	NA	0-20		LFM	
	4147	SELENIUM	ND	0.051		0.050	mg/L	102			80-120	NA	0-20		LFM	
	4147	SILVER	ND	0.038		0.050	mg/L	76			80-120	NA	0-20		LFM	
	4147	THALLIUM	ND	0.049		0.050	mg/L	98			80-120	NA	0-20		LFM	
	4147	VANADIUM	0.001	0.051		0.050	mg/L	100			80-120	NA	0-20		LFM	
	4147	ZINC	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4420	ANTIMONY	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4420	ARSENIC	0.040	0.095		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4420	BARIUM	0.043	0.095		0.050	mg/L	104			80-120	NA	0-20		LFM	
	4420	BERYLLIUM	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	
	4420	CADMIUM	ND	0.055		0.050	mg/L	110			80-120	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4420	CHROMIUM	0.003	0.050	0.050	mg/L	94		80-120	NA	0-20			LFM	
	4420	COBALT	ND	0.048	0.050	mg/L	96		80-120	NA	0-20			LFM	
	4420	COPPER	0.195	0.262	0.050	mg/L	134		80-120	NA	0-20	IS		LFM	
	4420	LEAD	0.014	0.065	0.050	mg/L	102		80-120	NA	0-20			LFM	
	4420	MANGANESE	0.100	0.154	0.050	mg/L	108		80-120	NA	0-20			LFM	
	4420	NICKEL	0.003	0.053	0.050	mg/L	100		80-120	NA	0-20			LFM	
	4420	SELENIUM	ND	0.050	0.050	mg/L	100		80-120	NA	0-20			LFM	
	4420	SILVER	ND	0.045	0.050	mg/L	90		80-120	NA	0-20			LFM	
	4420	THALLIUM	ND	0.049	0.050	mg/L	98		80-120	NA	0-20			LFM	
	4420	VANADIUM	ND	0.048	0.050	mg/L	96		80-120	NA	0-20			LFM	
	4420	ZINC	0.606	0.720	0.050	mg/L	228		80-120	NA	0-20	IS		LFM	
	4429	ANTIMONY	ND	0.055	0.050	mg/L	110		80-120	NA	0-20			LFM	
	4429	ARSENIC	0.005	0.058	0.050	mg/L	106		80-120	NA	0-20			LFM	
	4429	BARIUM	0.033	0.085	0.050	mg/L	104		80-120	NA	0-20			LFM	
	4429	BERYLLIUM	ND	0.056	0.050	mg/L	112		80-120	NA	0-20			LFM	
	4429	CADMIUM	ND	0.055	0.050	mg/L	110		80-120	NA	0-20			LFM	
	4429	CHROMIUM	ND	0.047	0.050	mg/L	94		80-120	NA	0-20			LFM	
	4429	COBALT	ND	0.048	0.050	mg/L	96		80-120	NA	0-20			LFM	
	4429	COPPER	ND	0.055	0.050	mg/L	110		80-120	NA	0-20			LFM	
	4429	LEAD	ND	0.050	0.050	mg/L	100		80-120	NA	0-20			LFM	
	4429	MANGANESE	0.099	0.150	0.050	mg/L	102		80-120	NA	0-20			LFM	
	4429	NICKEL	0.002	0.052	0.050	mg/L	100		80-120	NA	0-20			LFM	
	4429	SELENIUM	ND	0.052	0.050	mg/L	104		80-120	NA	0-20			LFM	
	4429	SILVER	ND	0.041	0.050	mg/L	82		80-120	NA	0-20			LFM	
	4429	THALLIUM	ND	0.049	0.050	mg/L	98		80-120	NA	0-20			LFM	
	4429	VANADIUM	0.002	0.051	0.050	mg/L	98		80-120	NA	0-20			LFM	
	4429	ZINC	0.113	0.177	0.050	mg/L	128		80-120	NA	0-20			LFM	
8151W_150211															
	4423	2,4 - D	ND	4.53	5.06	ug/L	90	NA	60-120	NA	0-20			LFM	
	4423	2,4 DB	ND	15.7	20.3	ug/L	77	NA	49-134	NA	0-20			LFM	
	4423	2,4,5 - TP (SILVEX)	ND	2.47	2.53	ug/L	98	NA	68-122	NA	0-20			LFM	
	4423	2,4,5 T	ND	2.44	2.53	ug/L	96	NA	62-128	NA	0-20			LFM	
	4423	ACIFLUORFEN	ND	2.27	2.53	ug/L	90	NA	65-125	NA	0-20			LFM	
	4423	BENTAZON	ND	4.34	5.06	ug/L	86	NA	67-121	NA	0-20			LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4423	DALAPON	ND	30.9	32.9	ug/L	94	NA	53-421	NA	0-20		LFM		
	4423	DICHLORPROP	ND	7.04	7.59	ug/L	93	NA	63-123	NA	0-20		LFM		
	4423	DINOSEB	ND	4.05	5.06	ug/L	80	NA	73-127	NA	0-20		LFM		
	4423	MCPA	ND	2.25	2.53	ug/L	89	NA	49-121	NA	0-20		LFM		
	4423	MCPP	ND	2.18	2.53	ug/L	86	NA	48-126	NA	0-20		LFM		
	4423	PENTACHLOROPHENOL	ND	2.33	2.53	ug/L	92	NA	69-123	NA	0-20		LFM		
	4423	PICLORAM	ND	2.22	2.53	ug/L	88	NA	48-114	NA	0-20		LFM		
	4423	TOTAL DCPA	ND	2.37	2.53	ug/L	94	NA	48-168	NA	0-20		LFM		
	4423	TRICLOPYR	ND	2.42	2.53	ug/L	96	NA	70-130	NA	0-20		LFM		
8260W_150203															
	4440	1,1 - DICHLOROETHANE	2.0	5.1	5.4	4	ug/L	78	85	70-130	9.2	0-20		LFM	
	4440	1,1 - DICHLOROETHYLENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM	
	4440	1,1,1 - TRICHLOROETHANE	0.7	3.8	4.0	4	ug/L	78	83	70-130	6.3	0-20		LFM	
	4440	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	4.4	4	ug/L	103	110	70-130	7.1	0-20		LFM	
	4440	1,1,2 - TRICHLOROETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4	0-20		LFM	
	4440	1,1,2,2 - TETRACHLOROETHANE	ND	5.1	5.1	4	ug/L	128	128	70-130	0.0	0-20		LFM	
	4440	1,2 - DICHLOROBENZENE (ortho)	ND	4.8	5.1	4	ug/L	120	128	70-130	6.1	0-20		LFM	
	4440	1,2 - DICHLOROETHANE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0	0-20		LFM	
	4440	1,2 - DICHLOROPROPANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6	0-20		LFM	
	4440	1,2,3 - TRICHLOROPROPANE	ND	4.8	4.8	4	ug/L	120	120	70-130	0.0	0-20		LFM	
	4440	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.3	5.1	4	ug/L	108	128	70-130	17.0	0-20		LFM	
	4440	1,4 - DICHLOROBENZENE (para)	ND	4.9	5.1	4	ug/L	123	128	70-130	4.0	0-20		LFM	
	4440	BENZENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM	
	4440	BROMOCHLOROMETHANE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM	
	4440	BROMODICHLOROMETHANE	ND	3.2	3.3	4	ug/L	80	83	70-130	3.1	0-20		LFM	
	4440	BROMOFORM	ND	3.7	4.0	4	ug/L	93	100	70-130	7.8	0-20		LFM	
	4440	BROMOMETHANE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0	0-20		LFM	
	4440	CARBON TETRACHLORIDE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1	0-20		LFM	
	4440	CHLOROBENZENE	ND	4.3	4.5	4	ug/L	108	113	70-130	4.5	0-20		LFM	
	4440	CHLOROETHANE	0.5	4.3	4.2	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	4440	CHLOROFORM	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6	0-20		LFM	
	4440	CHLOROMETHANE	ND	3.6	3.2	4	ug/L	90	80	70-130	11.8	0-20		LFM	
	4440	CIS - 1,2 - DICHLOROETHENE	ND	3.3	3.6	4	ug/L	83	90	70-130	8.7	0-20		LFM	
	4440	CIS - 1,3 - DICHLOROPROPENE	ND	3.0	3.1	4	ug/L	75	78	70-130	3.3	0-20		LFM	

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				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	4440	DIBROMOCHLOROMETHANE	ND	2.9	2.9	4	ug/L	73	73	70-130	0.0	0-20		LFM	
	4440	DIBROMOMETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
	4440	ETHYLBENZENE	ND	4.6	4.7	4	ug/L	115	118	70-130	2.2	0-20		LFM	
	4440	M,P- XYLENE	ND	9.4	9.8	8	ug/L	118	123	70-130	4.2	0-20		LFM	
	4440	METHYLENE CHLORIDE	0.9	4.3	4.5	4	ug/L	85	90	70-130	5.7	0-20		LFM	
	4440	O - XYLENE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2	0-20		LFM	
	4440	STYRENE	ND	4.5	4.8	4	ug/L	113	120	70-130	6.5	0-20		LFM	
	4440	TETRACHLOROETHYLENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0	0-20		LFM	
	4440	TOLUENE	ND	3.4	3.4	4	ug/L	85	85	70-130	0.0	0-20		LFM	
	4440	TRANS - 1,2 - DICHLOROETHENE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0	0-20		LFM	
	4440	TRANS - 1,3 - DICHLOROPROPENE	ND	3.0	3.0	4	ug/L	75	75	70-130	0.0	0-20		LFM	
	4440	TRICHLOROETHENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0	0-20		LFM	
	4440	TRICHLOROFLUOROMETHANE	59.3	52.0	56.5	4	ug/L	-183	-70	70-130	89.1	0-20	S	LFM	
	4440	VINYL CHLORIDE	7.9	10.8	10.9	4	ug/L	73	75	70-130	3.4	0-20		LFM	
8260W_150206															
	4417	1,1 - DICHLOROETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
	4417	1,1 - DICHLOROETHYLENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	4417	1,1,1 - TRICHLOROETHANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5	0-20		LFM	
	4417	1,1,1,2 - TETRACHLOROETHANE	ND	3.9	3.7	4	ug/L	98	93	70-130	5.3	0-20		LFM	
	4417	1,1,2 - TRICHLOROETHANE	ND	3.6	4.0	4	ug/L	90	100	70-130	10.5	0-20		LFM	
	4417	1,1,2,2 - TETRACHLOROETHANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5	0-20		LFM	
	4417	1,2 - DICHLOROBENZENE (ortho)	ND	4.0	4.0	4	ug/L	100	100	70-130	0.0	0-20		LFM	
	4417	1,2 - DICHLOROETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM	
	4417	1,2 - DICHLOROPROPANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
	4417	1,2,3 - TRICHLOROPROPANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5	0-20		LFM	
	4417	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.0	4.8	4	ug/L	100	120	70-130	18.2	0-20		LFM	
	4417	1,4 - DICHLOROBENZENE (para)	ND	4.1	4.1	4	ug/L	103	103	70-130	0.0	0-20		LFM	
	4417	BENZENE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
	4417	BROMOCHLOROMETHANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5	0-20		LFM	
	4417	BROMODICHLOROMETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4	0-20		LFM	
	4417	BROMOFORM	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1	0-20		LFM	
	4417	BROMOMETHANE	ND	2.1	2.3	4	ug/L	53	58	70-130	9.1	0-20	N1	LFM	
	4417	CARBON TETRACHLORIDE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	4417	CHLOROBENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	4417	CHLOROETHANE	ND	4.3	3.7	4	ug/L	108	93	70-130	15.0	0-20		LFM	
	4417	CHLOROFORM	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM	
	4417	CHLOROMETHANE	ND	3.4	3.2	4	ug/L	85	80	70-130	6.1	0-20		LFM	
	4417	CIS - 1,2 - DICHLOROETHENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1	0-20		LFM	
	4417	CIS - 1,3 - DICHLOROPROPENE	ND	3.7	3.8	4	ug/L	93	95	70-130	2.7	0-20		LFM	
	4417	DIBROMOCHLOROMETHANE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7	0-20		LFM	
	4417	DIBROMOMETHANE	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0	0-20		LFM	
	4417	ETHYLBENZENE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0	0-20		LFM	
	4417	M,P- XYLENE	ND	7.8	7.5	8	ug/L	98	94	70-130	3.9	0-20		LFM	
	4417	METHYLENE CHLORIDE	ND	3.8	4.0	4	ug/L	95	100	70-130	5.1	0-20		LFM	
	4417	O - XYLENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM	
	4417	STYRENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	4417	TETRACHLOROETHYLENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	4417	TOLUENE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
	4417	TRANS - 1,2 - DICHLOROETHENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM	
	4417	TRANS - 1,3 - DICHLOROPROPENE	ND	3.7	3.9	4	ug/L	93	98	70-130	5.3	0-20		LFM	
	4417	TRICHLOROETHENE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0	0-20		LFM	
	4417	TRICHLOROFLUOROMETHANE	ND	4.0	3.2	4	ug/L	100	80	70-130	22.2	0-20		LFM	
	4417	VINYL CHLORIDE	ND	3.4	3.1	4	ug/L	85	78	70-130	9.2	0-20		LFM	
COD_150202															
	4320	CHEMICAL OXYGEN DEMAND	28	77	71	50	mg/L	98	86	70-130	13.0	0-20		LFM	
	4422	CHEMICAL OXYGEN DEMAND	10	61	65	50	mg/L	102	110	70-130	7.5	0-20		LFM	
	4429	CHEMICAL OXYGEN DEMAND	13	68	67	50	mg/L	110	108	70-130	1.8	0-20		LFM	
I150130A															
	3779	CHLORIDE	47	67		20	mg/L	100		90-110	NA	0-20		LFM	
	3780	CHLORIDE	41	61		20	mg/L	100		90-110	NA	0-20		LFM	
	4423	FLUORIDE	ND	1.01		1	mg/L	101		90-110	NA	0-20		LFM	
	4423	TOTAL NITRATE/NITRITE	12	14.01		2	mg/L	101		90-110	NA	0-20		LFM	
SIM_150202															
	4417	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.11	0.109	0.1	ug/L	110	109	70-130	0.9	0-20		LFM	
	4417	ACRYLONITRILE (SIM)	ND	0.106	0.094	0.1	ug/L	106	94	70-130	12.0	0-20		LFM	
	4417	VINYL CHLORIDE (SIM)	ND	0.112	0.114	0.1	ug/L	112	114	70-130	1.8	0-20		LFM	
TOC_150203															
	3976	TOTAL ORGANIC CARBON	2.11	5.70		4.00	mg/L	90		70-130	NA	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4094	TOTAL ORGANIC CARBON	0.92	4.62		4.00	mg/L	93		70-130	NA	0-20			LFM
	4252	TOTAL ORGANIC CARBON	0.71	4.58		4.00	mg/L	97		70-130	NA	0-20			LFM
	4419	TOTAL ORGANIC CARBON	1.68	5.44		4.00	mg/L	94		70-130	NA	0-20			LFM
	4429	TOTAL ORGANIC CARBON	1.46	5.12		4.00	mg/L	92		70-130	NA	0-20			LFM

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-01876

Report Date: 02/19/15

Qualifier	Definition
E	Indicates that the concentration exceeds the calibration range. Values which are outside the calibration curve are estimates only.
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
LE	The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.
LM	The LFB recovery for this sample set was below the acceptance limit. The matrix spike recovery was acceptable. Since there were no detections in the samples and there was adequate sensitivity below the SRL, no further action was taken.
N1	See case narrative.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADEN SECTIONS)

15-01876
4416 - 4429



REPORT TO: **SCS ENGINEERS**
 Address: **2405 140TH AVE. NE STE 107**
 CITY: **BELLEVUE** STATE: **WA** ZIP: **98005**
 ATTN: **ELENA RAMIREZ**
 PHONE: **425-746-4600** FAX: **425-746-6747**
 EMAIL: **eramirez@scsengineers.com**
 PROJECT NAME: **COUPEVILLE LANDFILL**

BILL TO: **ISLAND COUNTY SOLID WASTE**
 Address: **PO Box 5000**
 CITY: **Coupeville** STATE: **WA** ZIP: **98239**
 PHONE: **360-678-7338** FAX:
 P.O.#:
 VISA M/C A/E EXPRES /
 OTHER

Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW! LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3,COD	8260B	8260SIM	Chloride, Sulfate,TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	0115-17 Coupeville Landfill	G	GW	12/15	0906	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2	0115-18 Coupeville Landfill	G	GW	1025		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3	0115-19 Coupeville Landfill	G	GW	1131		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4	0115-20 Coupeville Landfill	G	GW	1209		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
5	0115-21 Coupeville Landfill	G	GW	1255		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
6	0115-22 Coupeville Landfill	G	GW	1320		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
7	0115-23 Coupeville Landfill	G	GW	1345		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
8	0115-24 Coupeville Landfill	G	GW	1430		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
9	0115-25 Coupeville Landfill	G	GW	1445		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
10	0115-26 Coupeville Landfill	G	GW	1517		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
SAMPLED BY: <i>Matt Gilman</i>		PHONE: <i>125-289-5452</i>		FAX:		EMAIL: <i>mohant@scsengineers.com</i>		TOTAL CONTAINERS		110					

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER DW- DRINKING WATER SW- SURFACE WATER WW- WASTE WATER S-SOIL OL-OIL OTHER

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>MATTHEW GILMAN</i>	1/30/15	1330	<i>[Signature]</i>	1-30-15	1330

CUSTODY SEALS INTACT YES NO N/A

SAMPLE TEMP *3.4* °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A

SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO N/A

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: **SCS ENGINEERS**
 Address: **2405 140TH AVE. NE STE 107**
 CITY: **BELLEVUE** STATE: **WA** ZIP: **98005**
 ATTN: **ELENA RAMIREZ**
 PHONE: **425-746-4600** FAX: **425-746-6747**
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 PHONE: **360-678-7338** FAX:
 P.O.#:
 VISA M/C A/E EXP. /
 CARD#

REF#
FOR LAB USE ONLY
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

EDGE ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

- INSTRUCTIONS**
- USE ONE LINE PER SAMPLE LOCATION.
 - BE SPECIFIC IN TEST REQUESTS.
 - NEW LIST EACH METAL INDIVIDUALLY. NEW
 - CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
 - ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	ANALYSIS REQUESTED		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
						Total Metals	NO2/NO3, NH3, COD		
1	0115-27 Coupeville Landfill	G	GW	1/29/15	1530	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	*Hold analysis
2	0115-28 Coupeville Landfill	G	GW	1/30/15	0836	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3	0115-29 Coupeville Landfill	G	GW	1/30/15	0900	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4	0115-34 Coupeville Landfill	G	GW	1/30/15	1235	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
5	0115-34 Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	COOLERS #3
6	0115-34 Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12	TEMP 4.1
7	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		
8	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		
9	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		
10	0115- Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLED BY: *M. H. Pelt* PHONE: *425-789-5452* FAX:
 SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER DW-DRINKING WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL
 S-SOIL OTHER

RELINQUISHED BY: *[Signature]* DATE: *1/30/15* TIME: *1330* RECEIVED BY: *[Signature]* DATE: *1-30-15* TIME: *1330*

CUSTODY SEALS INTACT YES NO N/A
 SAMPLE TEMP *2.0* °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

February 13, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-01885 - Qrtly VOC Assessment Coupeville

Dear Elena Ramirez,

Your project: Qrtly VOC Assessment Coupeville, was received on Friday January 30, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04441
Field ID: 1115-33
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04441
Field ID: 1115-33
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	0.082		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	0.098		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04440
Field ID: 1115-32
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/3/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150203
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	2.0		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.7		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	0.5		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	0.9		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	59.3		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	7.9		ug/L	0.4	0.4	0.26	1.00	a	9.7 ug/L unpreserved

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04440
Field ID: 1115-32
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	9.7		ug/L	0.02	0.01	0.0059	1.00	a	FULL SCAN
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04439
Field ID: 1115-31
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04439
Field ID: 1115-31
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.010		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04438
Field ID: 1115-30
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/6/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150206
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.26	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.3	0.3	0.26	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2.0	2.0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	0.5		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3.0	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-01885**
Project: Qrtly VOC Assessment Coup

Lab Number: 04438
Field ID: 1115-30
Sample Description: CSWF
Matrix: Water
Sample Date: 1/30/15
Extraction Date: 2/2/15
Extraction Method: 5030B

Report Date: 2/13/15
Date Analyzed: 2/2/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150202
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	0.037		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150203	1,1 - DICHLOROETHANE	3.6	4	ug/L	8260B	90	80-120	LFB		
	1,1 - DICHLOROETHYLENE	3.4	4	ug/L	8260B	85	80-120	LFB		
	1,1,1 - TRICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120	LFB		
	1,1,1,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB		
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120	LFB		
	1,1,2,2 - TETRACHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB		
	1,2 - DICHLOROBENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120	LFB		
	1,2 - DICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB		
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120	LFB		
	1,2,3 - TRICHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB		
	1,2-DIBROMO-3-CHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB		
	1,4 - DICHLOROBENZENE (para)	4.6	4	ug/L	8260B	115	80-120	LFB		
	2-BUTANONE (MEK)	8.2	10	ug/L	8260B	82	80-120	LFB		
	2-HEXANONE	8.3	10	ug/L	8260B	83	80-120	LFB		
	4-METHYL-2-PENTANONE	9.5	10	ug/L	8260B	95	80-120	LFB		
	ACETONE	8.8	10	ug/L	8260B	88	80-120	LFB		
	BENZENE	3.4	4	ug/L	8260B	85	80-120	LFB		
	BROMOCHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB		
	BROMODICHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB		
	BROMOFORM	3.9	4	ug/L	8260B	98	80-120	LFB		
	BROMOMETHANE	3.9	4	ug/L	8260B	98	80-120	LFB		
	CARBON DISULFIDE	9.6	10	ug/L	8260B	96	80-120	LFB		
	CARBON TETRACHLORIDE	3.3	4	ug/L	8260B	83	80-120	LFB		
	CHLOROBENZENE	4.3	4	ug/L	8260B	108	80-120	LFB		
	CHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB		
	CHLOROFORM	3.7	4	ug/L	8260B	93	80-120	LFB		
	CHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB		
	CIS - 1,2 - DICHLOROETHENE	3.5	4	ug/L	8260B	88	80-120	LFB		
	CIS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB		
	DIBROMOCHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120	LFB		
	DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB		
	ETHYLBENZENE	4.4	4	ug/L	8260B	110	80-120	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
8260W_150203	M,P- XYLENE	9.2	8	ug/L	8260B	115	80-120	LFB	
	METHYL IODIDE	8.9	10	ug/L	8260B	89	80-120	LFB	
	METHYLENE CHLORIDE	3.7	4	ug/L	8260B	93	80-120	LFB	
	O - XYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	STYRENE	4.4	4	ug/L	8260B	110	80-120	LFB	
	TETRACHLOROETHYLENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TOLUENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRANS - 1,2 - DICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRANS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120	LFB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	10.9	10	ug/L	8260B	109	80-120	LFB	
	TRICHLOROETHENE	3.3	4	ug/L	8260B	83	80-120	LFB	
	TRICHLOROFUOROMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	VINYL ACETATE	8.3	10	ug/L	8260B	83	80-120	LFB	
VINYL CHLORIDE	3.9	4	ug/L	8260B	98	80-120	LFB		
8260W_150206	1,1 - DICHLOROETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	1,1 - DICHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	1,1,1,2 - TETRACHLOROETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	1,1,2,2 - TETRACHLOROETHANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	1,2 - DICHLOROETHANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	1,2 - DICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	1,2,3 - TRICHLOROPROPANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	1,2-DIBROMO-3-CHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	1,4 - DICHLOROBENZENE (para)	4.0	4	ug/L	8260B	100	80-120	LFB	
	2-BUTANONE (MEK)	8.9	10	ug/L	8260B	89	80-120	LFB	
	2-HEXANONE	9.5	10	ug/L	8260B	95	80-120	LFB	
	4-METHYL-2-PENTANONE	9.9	10	ug/L	8260B	99	80-120	LFB	
	ACETONE	10.1	10	ug/L	8260B	101	80-120	LFB	
	BENZENE	3.7	4	ug/L	8260B	93	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150206	BROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	BROMODICHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120		LFB	
	BROMOFORM	3.5	4	ug/L	8260B	88	80-120		LFB	
	BROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LE	LFB	
	CARBON DISULFIDE	9.8	10	ug/L	8260B	98	80-120		LFB	
	CARBON TETRACHLORIDE	3.7	4	ug/L	8260B	93	80-120		LFB	
	CHLOROBENZENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	CHLOROETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	CHLOROFORM	3.6	4	ug/L	8260B	90	80-120		LFB	
	CHLOROMETHANE	4.4	4	ug/L	8260B	110	80-120		LFB	
	CIS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	CIS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	DIBROMOCHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120		LFB	
	DIBROMOMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120		LFB	
	METHYL IODIDE	8.1	10	ug/L	8260B	81	80-120	LE	LFB	
	METHYLENE CHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
	O - XYLENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	STYRENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	TETRACHLOROETHYLENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	TOLUENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	TRANS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	11.9	10	ug/L	8260B	119	80-120		LFB	
	TRICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	TRICHLOROFLUOROMETHANE	3.5	4	ug/L	8260B	88	80-120		LFB	
	VINYL ACETATE	9.1	10	ug/L	8260B	91	80-120		LFB	
	VINYL CHLORIDE	3.6	4	ug/L	8260B	90	80-120		LFB	
	SIM_150202	1,2 - DIBROMOETHANE (EDB SIM)	0.222	0.2	ug/L	8260SIM	111	70-130		LFB
ACRYLONITRILE (SIM)		0.224	0.2	ug/L	8260SIM	112	70-130		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
SIM_150202	VINYL CHLORIDE (SIM)	0.22	0.2	ug/L	8260SIM	110	70-130			LFB	
	VINYL CHLORIDE (SIM)	3.9	4	ug/L	8260SIM	98	70-130			LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150203	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB		
8260W_150206	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
BROMOMETHANE	ND		ug/L	8260B		0-0	MB		
CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	
	VINYL ACETATE	ND		ug/L	8260B		0-0	MB	
	VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	
1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB		
1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150206	1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	
	2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	
	2-HEXANONE	ND		ug/L	8260B		0-0	MB	
	4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	
	ACETONE	ND		ug/L	8260B		0-0	MB	
	BENZENE	ND		ug/L	8260B		0-0	MB	
	BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	BROMOFORM	ND		ug/L	8260B		0-0	MB	
	BROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	
	CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	
	CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	
	CHLOROETHANE	ND		ug/L	8260B		0-0	MB	
	CHLOROFORM	ND		ug/L	8260B		0-0	MB	
	CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	
	DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	
	ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	
	M,P- XYLENE	ND		ug/L	8260B		0-0	MB	
	METHYL IODIDE	ND		ug/L	8260B		0-0	MB	
	METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	
	O - XYLENE	ND		ug/L	8260B		0-0	MB	
	STYRENE	ND		ug/L	8260B		0-0	MB	
	TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	
	TOLUENE	ND		ug/L	8260B		0-0	MB	
	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-01885**

Report Date: 02/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150206	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0			MB	
	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0			MB	
	TRICHLOROETHENE	ND		ug/L	8260B	0-0			MB	
	TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0			MB	
	VINYL ACETATE	ND		ug/L	8260B	0-0			MB	
	VINYL CHLORIDE	ND		ug/L	8260B	0-0			MB	
SIM_150202	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0			MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0			MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0			MB	
	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0			MB	
	ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0			MB	
	VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0			MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
8260W_150203															
	4440	1,1 - DICHLOROETHANE	2.0	5.1	5.4	4	ug/L	78	85	70-130	9.2				LFM
	4440	1,1 - DICHLOROETHYLENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9				LFM
	4440	1,1,1 - TRICHLOROETHANE	0.7	3.8	4.0	4	ug/L	78	83	70-130	6.3				LFM
	4440	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	4.4	4	ug/L	103	110	70-130	7.1				LFM
	4440	1,1,2 - TRICHLOROETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4				LFM
	4440	1,1,2,2 - TETRACHLOROETHANE	ND	5.1	5.1	4	ug/L	128	128	70-130	0.0				LFM
	4440	1,2 - DICHLOROBENZENE (ortho)	ND	4.8	5.1	4	ug/L	120	128	70-130	6.1				LFM
	4440	1,2 - DICHLOROETHANE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0				LFM
	4440	1,2 - DICHLOROPROPANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6				LFM
	4440	1,2,3 - TRICHLOROPROPANE	ND	4.8	4.8	4	ug/L	120	120	70-130	0.0				LFM
	4440	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.3	5.1	4	ug/L	108	128	70-130	17.0				LFM
	4440	1,4 - DICHLOROBENZENE (para)	ND	4.9	5.1	4	ug/L	123	128	70-130	4.0				LFM
	4440	BENZENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9				LFM
	4440	BROMOCHLOROMETHANE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9				LFM
	4440	BROMODICHLOROMETHANE	ND	3.2	3.3	4	ug/L	80	83	70-130	3.1				LFM
	4440	BROMOFORM	ND	3.7	4.0	4	ug/L	93	100	70-130	7.8				LFM
	4440	BROMOMETHANE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0				LFM
	4440	CARBON TETRACHLORIDE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1				LFM
	4440	CHLOROBENZENE	ND	4.3	4.5	4	ug/L	108	113	70-130	4.5				LFM
	4440	CHLOROETHANE	0.5	4.3	4.2	4	ug/L	95	93	70-130	2.7				LFM
	4440	CHLOROFORM	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6				LFM
	4440	CHLOROMETHANE	ND	3.6	3.2	4	ug/L	90	80	70-130	11.8				LFM
	4440	CIS - 1,2 - DICHLOROETHENE	ND	3.3	3.6	4	ug/L	83	90	70-130	8.7				LFM
	4440	CIS - 1,3 - DICHLOROPROPENE	ND	3.0	3.1	4	ug/L	75	78	70-130	3.3				LFM

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	4440	DIBROMOCHLOROMETHANE	ND	2.9	2.9	4	ug/L	73	73	70-130	0.0			LFM	
	4440	DIBROMOMETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4440	ETHYLBENZENE	ND	4.6	4.7	4	ug/L	115	118	70-130	2.2			LFM	
	4440	M,P- XYLENE	ND	9.4	9.8	8	ug/L	118	123	70-130	4.2			LFM	
	4440	METHYLENE CHLORIDE	0.9	4.3	4.5	4	ug/L	85	90	70-130	5.7			LFM	
	4440	O - XYLENE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2			LFM	
	4440	STYRENE	ND	4.5	4.8	4	ug/L	113	120	70-130	6.5			LFM	
	4440	TETRACHLOROETHYLENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0			LFM	
	4440	TOLUENE	ND	3.4	3.4	4	ug/L	85	85	70-130	0.0			LFM	
	4440	TRANS - 1,2 - DICHLOROETHENE	ND	3.2	3.5	4	ug/L	80	88	70-130	9.0			LFM	
	4440	TRANS - 1,3 - DICHLOROPROPENE	ND	3.0	3.0	4	ug/L	75	75	70-130	0.0			LFM	
	4440	TRICHLOROETHENE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0			LFM	
	4440	TRICHLOROFLUOROMETHANE	59.3	52.0	56.5	4	ug/L	-183	-70	70-130	89.1			LFM	
	4440	VINYL CHLORIDE	7.9	10.8	10.9	4	ug/L	73	75	70-130	3.4			LFM	
8260W_150206															
	4417	1,1 - DICHLOROETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4417	1,1 - DICHLOROETHYLENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	1,1,1 - TRICHLOROETHANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5			LFM	
	4417	1,1,1,2 - TETRACHLOROETHANE	ND	3.9	3.7	4	ug/L	98	93	70-130	5.3			LFM	
	4417	1,1,2 - TRICHLOROETHANE	ND	3.6	4.0	4	ug/L	90	100	70-130	10.5			LFM	
	4417	1,1,2,2 - TETRACHLOROETHANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5			LFM	
	4417	1,2 - DICHLOROBENZENE (ortho)	ND	4.0	4.0	4	ug/L	100	100	70-130	0.0			LFM	
	4417	1,2 - DICHLOROETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4			LFM	
	4417	1,2 - DICHLOROPROPANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4417	1,2,3 - TRICHLOROPROPANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5			LFM	
	4417	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.0	4.8	4	ug/L	100	120	70-130	18.2			LFM	
	4417	1,4 - DICHLOROBENZENE (para)	ND	4.1	4.1	4	ug/L	103	103	70-130	0.0			LFM	
	4417	BENZENE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4417	BROMOCHLOROMETHANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5			LFM	
	4417	BROMODICHLOROMETHANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4			LFM	
	4417	BROMOFORM	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1			LFM	
	4417	BROMOMETHANE	ND	2.1	2.3	4	ug/L	53	58	70-130	9.1			LFM	
	4417	CARBON TETRACHLORIDE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	CHLOROBENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6			LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	4417	CHLOROETHANE	ND	4.3	3.7	4	ug/L	108	93	70-130	15.0			LFM	
	4417	CHLOROFORM	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0			LFM	
	4417	CHLOROMETHANE	ND	3.4	3.2	4	ug/L	85	80	70-130	6.1			LFM	
	4417	CIS - 1,2 - DICHLOROETHENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1			LFM	
	4417	CIS - 1,3 - DICHLOROPROPENE	ND	3.7	3.8	4	ug/L	93	95	70-130	2.7			LFM	
	4417	DIBROMOCHLOROMETHANE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7			LFM	
	4417	DIBROMOMETHANE	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0			LFM	
	4417	ETHYLBENZENE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0			LFM	
	4417	M,P- XYLENE	ND	7.8	7.5	8	ug/L	98	94	70-130	3.9			LFM	
	4417	METHYLENE CHLORIDE	ND	3.8	4.0	4	ug/L	95	100	70-130	5.1			LFM	
	4417	O - XYLENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6			LFM	
	4417	STYRENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	TETRACHLOROETHYLENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7			LFM	
	4417	TOLUENE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6			LFM	
	4417	TRANS - 1,2 - DICHLOROETHENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6			LFM	
	4417	TRANS - 1,3 - DICHLOROPROPENE	ND	3.7	3.9	4	ug/L	93	98	70-130	5.3			LFM	
	4417	TRICHLOROETHENE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0			LFM	
	4417	TRICHLOROFLUOROMETHANE	ND	4.0	3.2	4	ug/L	100	80	70-130	22.2			LFM	
	4417	VINYL CHLORIDE	ND	3.4	3.1	4	ug/L	85	78	70-130	9.2			LFM	
SIM_150202	4417	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.11	0.109	0.1	ug/L	110	109	70-130	0.9			LFM	
	4417	ACRYLONITRILE (SIM)	ND	0.106	0.094	0.1	ug/L	106	94	70-130	12.0			LFM	
	4417	VINYL CHLORIDE (SIM)	ND	0.112	0.114	0.1	ug/L	112	114	70-130	1.8			LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-01885

Report Date: 02/13/15

Qualifier	Definition
LE	The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

15-01885
4438 - 4441



Main Lab (800-755-9295)
1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wiltonville Lab (503-682-7802)
9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
540 SW 3rd St. Corvallis, OR 97333

Report to: SCS Engineers
Ship Address: 2405 140th Ave NE Ste 107
City: Bellevue St: WA Zip: 98005
Attn: Elena Ramirez
Phone: 425.746-4600 FAX: 746-6747
Email: eramirez@scsengineers.com
Project: Quarterly VOC Assesment Coupeville

Bill to: Address: City: St: Zip:
Phone: FAX:
P.O.#: Attn:
 Visa M/C A/E Expires /
Card#: /

Check Regulatory Program
 Safe Drinking Water Act
 Clean Water Act
 RCRA / CERCLA
 Other

Instructions
1. Use one line per sample Location.
2. Be specific in analysis requests.
3. (NEW) List each metal individually. (NEW)
4. Check off analyses to be performed for each sample Location.
5. Enter number of containers.

Turn Around Time Required
 Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

Analyses Requested

Field ID	Location	Grab/Comp.	Sample Matrix*	Date	Time	8260	8260 SIM	MSMSD/8260	MSMSD/SIMS	Number of Containers					Special Instructions Conditions on Receipt	
1	1115-30 CSWF	G	W	1/30/15	1002	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	6	6	6	Hold for analysis
2	1115-31 CSWF	G	W	1/30/15	1015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	6	6	6	
3	1115-32 CSWF	G	W	1/30/15	1125	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12	12	12	12	12	12	
4	1115-33 CSWF	G	W	1/30/15	1217	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	6	6	6	6	6	
5	Tap Blank*	-	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	4	4	4	4	4	
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

Sampled by: M. H. O'Hare Phone: 425-289-5452 FAX: Email: mohare@scsengineers.com 34 Total Containers

Sample Receipt Request (Must include FAX or Email) * W - water SW - surface water WW - waste water OL - oil
DW - drinking water GW - Ground water S - soil Other _____

Relinquished by: M. H. O'Hare Date: 1/30/15 Time: 1330 Received by: [Signature] Date: 1-30-15 Time: 1330

Custody seals intact Yes No N/A
Sample temp. 10.3C satisfactory Yes No N/A
Samples received intact Yes No N/A
Chain of custody & labels agree Yes No N/A



DATA VALIDATION REPORT – ISLAND COUNTY CSWF 2Q 2015

Project Details

Project No.	04207033.08	Site Name	Island County Coupeville SWF
Data Validator	Elena Ramirez	Data Level	Level II
Date	6/9/2015	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)
15-08034	No comments.	Edge Analytical
15-08135	Cooler temp. 6C; late lab pickup/sample check-in (4pm, 5/13/15)	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
15-08034	x	x	x	x	x	x	
15-08135	x	x	x	x	x	x	x

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
CAL	See lab reports.	TOC outside recover limits.
LFB	See lab reports.	Several analytes were flagged with values outside of threshold criteria.
LRB	Acceptable	No comments.
MB	See lab reports.	Lab used TB 15-08133 (15-08034); copper (0.001, 15-08135)
QCS	Acceptable	No comments
LFM	See lab reports.	Several analytes flagged with % recovery of matrix spike outside control limits.
DUP	See lab reports.	Several analytes over acceptable %RPD range.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
TB	15-08034	N/A	The laboratory did not run the trip blank.
Field Replicates		See below.	See detailed results below.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	Units	C1S	C1S-Dup	RPD (%)	N5S	N5S-Dup	RPD (%)
1,1,1-Trichloroethane	µg/L	0.6	0.6	0	--	--	--
Alkalinity	mg/L	331	330	0.3	313	315	0.6
Alkalinity, Bicarbonate	mg/L	331	330	0.3	313	315	0.6
Barium	mg/L	0.048	0.036	28.6	0.03	0.03	0
Calcium	mg/L	102	100.4	1.6	61.5	63.3	2.9
Chemical Oxygen Demand	mg/L	16	17	6.1	--	--	--
Chloride	mg/L	7	7.3	4.2	42	42.1	0.24
Chromium	mg/L	0.007	0.007	0	--	--	--

Duplicate Evaluation							
Analyte	Units	C1S	C1S-Dup	RPD (%)	N5S	N5S-Dup	RPD (%)
cis-1,2-Dichloroethylene	µg/L	0.5	0.5	0	ND	ND	NA
Copper	mg/L	0.003	0.0026	14.3	ND	ND	NA
Fluoride	mg/L	ND	ND	NA	0.17	0.17	0
Iron	mg/L	0.13	0.05	88.9	0.007 J	0.008 J	13.3
Magnesium	mg/L	46.2	45.8	0.9	40.2	41.4	2.9
Manganese	mg/L	0.012	0.003*	120	ND	ND	NA
Nickel	mg/L	0.009	0.008	11.8	0.002*	0.001*	66.7
Nitrate/Nitrite, Total	mg/L	6.44	6.53	1.4	ND	ND	NA
Potassium	mg/L	5.1	5.0	2.0	6.5	6.7	3.0
Sodium	mg/L	27.5	27.4	0.4	25.5	26.3	3.1
Sulfate	mg/L	148	167	12.1	34.8	34.8	0
Total Dissolved Solids	mg/L	633	644	1.7	438	438	0
Total Organic Carbon	mg/L	6.13	6.01	2.0	0.97	0.96	1.0
Trichlorofluoromethane	µg/L	5.9	6.0	1.9	ND	ND	NA
Vanadium	mg/L	0.0025*	0.002*	22.2	ND	ND	NA

*within 5 times the Practical Quantification Limit

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
E	Concentration exceeds the calibration range. Values outside calibration range are estimates only.	15-08135
HR	High QCS recovery.	15-08034, 15-08135
IEV	Acceptance criteria do not apply to estimated values.	15-08034, 15-08135
IM	Matrix induced bias assumed	15-08034, 15-08135
INH	The sample was non-homogeneous	15-08034, 15-08135
IS	The ratio of spike to sample was too low to meet performance criteria	15-08034, 15-08135
J	Indicates an estimated concentration. Concentration is below calibration curve but above method detection limit.	15-08034, 15-08135
LE	End calibration below acceptable limits	15-08135
LR	Low recovery cannot be accounted for.	15-08034, 15-08135
S	Spike amount lower than 5:1	15-08034, 15-08135

Qualified Data and Usability

The laboratory did not run the trip blank as an independent sample and was not included with the VOC results.

The laboratory identified the sample matrix as surface, although they have been provided documentation that the matrix is groundwater.

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 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.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

May 18, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-08135 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Wednesday April 29, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
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May 18, 2015

Page 1 of 1

Case Narrative

Reference: **15-08135**

Lab Sample ID	Sample Information	
18636	0415-27 - Coupeville Landfill	
Analytical Method	Notes	Created by
8260B	There is a disparity in results for vinyl chloride for the preserved and unpreserved sample. The result of the preserved sample is 5.9 ug/L by full scan and the unpreserved sample is 3.0 ug/L by full scan. The SIM result for the unpreserved sample was 8.7 ug/L which far exceeded the calibration curve.	HY



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-08135**
 Project: Coupeville Landfill

Report Date: 5/18/15

Date Received: 4/29/15
 Approved by: bj,mvp,sps
 Authorized by:

Lawrence J Henderson, PhD
 Director of Laboratories, Vice President

Sample Description: 0415-08 - Coupeville Landfill										Sample Date: 4/28/15 9:30 am		
Lab Number: 18618		Sample Comment:							Collected By: Matt O'Hare			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	59.5	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.17	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	37.9	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	1.13	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	320	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	320	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	504	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.47	0.15	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	66.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.008 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	44.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	29.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.025	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	0.008	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-10 - Coupeville Landfill	Sample Date: 4/28/15 10:10 am
Lab Number: 18619	Sample Comment:
	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	63.6	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.19	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	26.8	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	387	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	387	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.04	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	522	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.68	0.15	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	65.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.23	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	58.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	8.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	33.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.0106	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.051	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.183	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

Data Report

Sample Description: 0415-11 - Coupeville Landfill										Sample Date: 4/28/15 9:37 am		
Lab Number: 18620		Sample Comment:					Collected By: Matt O'Hare					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	35.4	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.1	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	23.2	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	264	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	264	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	378	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	0.67	0.15	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	63.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.47	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	24.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	20.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.009	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.037	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	0.0006	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.154	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Sample Description: 0415-12 - Coupeville Landfill										Sample Date: 4/28/15 11:10 am		
Lab Number: 18621		Sample Comment:					Collected By: Matt O'Hare					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	108	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.38	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	54.7	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A
E-14506	ALKALINITY	623	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504
NA	BICARBONATE	623	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	862	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504
E-10117	CHEMICAL OXYGEN DEMAND	11	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501
E-10195	TOTAL ORGANIC CARBON	2.14	0.15	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501
7440-70-2	CALCIUM	117.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.03	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	94.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	10.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	45.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIIUM	0.097	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.235	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.009	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-13 - Coupeville Landfill									Sample Date: 4/28/15 10:26 am		
Lab Number: 18622			Sample Comment:						Collected By: Matt O'Hare		

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	38.5	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	44.6	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	5.55	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	489	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	489	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	660	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	1.10	0.15	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501
7440-70-2	CALCIUM	128.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.08	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	48.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	6.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	27.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.0026	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.040	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	0.010	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.0025	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-14 - Coupeville Landfill	Sample Date: 4/28/15 11:51 am
Lab Number: 18623	Sample Comment:
	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	42	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.17	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	34.8	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	313	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	313	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	438	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	0.97	0.15	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	61.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.007 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	40.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	6.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	25.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.0002E	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.0003E	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-15 - Coupeville Landfill								Sample Date: 4/28/15 11:41 am				
Lab Number: 18624				Sample Comment:				Collected By: Matt O'Hare				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	94.3	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	41.5	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	11.8	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	393	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	393	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	666	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	tds_150504	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.02	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	123.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	49.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	6.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	27.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.040	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.0002E	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	0.012	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.004	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-16 - Coupeville Landfill	Sample Date: 4/28/15 11:55 am
Lab Number: 18625 Sample Comment:	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	42.1	0.1	0.0211	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.17	0.1	0.0054	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
14808-79-8	SULFATE	34.8	0.2	0.0174	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	4/30/15	BJ	I150430A	
E-14506	ALKALINITY	315	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	315	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	438	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	0.96	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	63.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.008 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	41.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	6.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	26.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-66-6 **ZINC** ND 0.0025 4.25E-05 mg/L 1.0 6020A/3010A a 5/12/15 MVP 6020_150512

Sample Description: 0415-17 - Coupeville Landfill									Sample Date: 4/28/15 12:35 pm			
Lab Number: 18626			Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	84.1	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.12	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	48.2	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	0.27	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	796	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	796	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	966	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	14	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.25	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	144.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.005 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	99.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	8.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	42.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.004	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.047	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.0015	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.037	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Sample Description: 0415-18 - Coupeville Landfill									Sample Date: 4/28/15 2:15 pm			
Lab Number: 18627			Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	43.5	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

14808-79-8	SULFATE	38.5	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
E-10128	TOTAL NITRATE/NITRITE	0.5	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
E-14506	ALKALINITY	536	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504
NA	BICARBONATE	536	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	646	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501
E-10195	TOTAL ORGANIC CARBON	0.81	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507
7440-70-2	CALCIUM	124.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	48.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	29.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.047	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	0.006	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-19 - Coupeville Landfill Sample Date: 4/28/15 2:39 pm
 Lab Number: 18628 Sample Comment: Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	33.7	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	15.7	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	349	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	349	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.03	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	428	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501
E-10195	TOTAL ORGANIC CARBON	0.94	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507
7440-70-2	CALCIUM	63.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	41.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	6.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	25.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.032	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.259	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-20 - Coupeville Landfill								Sample Date: 4/28/15 2:53 pm			
Lab Number: 18629		Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	29.8	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.21	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	12.6	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	246	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	246	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.08	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	330	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	17	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	3.27	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	34.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.70	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	25.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	10.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	39.4	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.014	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.039	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.0026	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	0.0008	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.074	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.003	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.006	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-21 - Coupeville Landfill								Sample Date: 4/28/15 3:54 pm			
Lab Number: 18630		Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	66.5	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.18	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	32.7	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	411	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	411	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.15	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	568	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.90	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	52.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.13	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	67.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	9.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	42.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.070	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.142	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-22 - Coupeville Landfill	Sample Date: 4/28/15 4:55 pm
Lab Number: 18631 Sample Comment:	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	68.7	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.18	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	29.9	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	368	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	368	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.09	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	544	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.86	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	70.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.43	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	51.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	7.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	35.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.008	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.046	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.155	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-23 - Coupeville Landfill								Sample Date: 4/28/15 5:02 pm			
Lab Number: 18632		Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	57.2	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	29.2	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	375	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	375	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	524	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.81	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507	
7440-70-2	CALCIUM	73.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.12	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	50.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	6.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	33.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	0.002	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.036	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.183	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Sample Description: 0415-24 - Coupeville Landfill								Sample Date: 4/29/15 9:40 am			
Lab Number: 18633		Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	24.5	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

Data Report

16984-48-8	FLUORIDE	0.14	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
14808-79-8	SULFATE	62.1	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
E-10128	TOTAL NITRATE/NITRITE	6.65	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
E-14506	ALKALINITY	686	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504
NA	BICARBONATE	686	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	848	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501
E-10195	TOTAL ORGANIC CARBON	1.08	0.15	0.05	mg/L	1.0	SM5310 B	a	5/7/15	BJ	TOC_150507
7440-70-2	CALCIUM	161.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	68.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	7.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	31.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.069	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	0.001	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.453	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-25 - Coupeville Landfill Sample Date: 4/29/15 9:03 am
 Lab Number: 18634 Sample Comment: Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	44.7	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.17	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	53.3	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	3.6	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	378	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	378	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10173	TOTAL DISSOLVED SOLIDS (TDS)	546	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504
E-10117	CHEMICAL OXYGEN DEMAND	9	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501
E-10195	TOTAL ORGANIC CARBON	1.62	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507
7440-70-2	CALCIUM	82.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	47.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	4.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	36.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	0.002	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-26 - Coupeville Landfill	Sample Date: 4/29/15 12:35 pm
Lab Number: 18635 Sample Comment:	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	34.9	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	5.8	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	236	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	236	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.06	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	310	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	30	8.0	5	mg/L	1.0	SM5220 D	a	5/6/15	MMH	COD_150506	
E-10195	TOTAL ORGANIC CARBON	1.03	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507	
7440-70-2	CALCIUM	36.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	8.19	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	28.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	11.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

Data Report

7440-23-5	SODIUM	19.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-66-6	ZINC	4.177	0.02	0.0003	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.071	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.039	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	0.036	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.042	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	0.044	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.124	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.021	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-27 - Coupeville Landfill	Sample Date: 4/29/15 10:35 am
Lab Number: 18636 Sample Comment:	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	16	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	17.7	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	395	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	395	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.29	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	452	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/6/15	MMH	COD_150506	
E-10195	TOTAL ORGANIC CARBON	1.86	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507	
7440-70-2	CALCIUM	78.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.88	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	37.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	5.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	26.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.0007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.0016	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	0.0009	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.179	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.011	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.062	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-28 - Coupeville Landfill	Sample Date: 4/29/15 1:00 pm
Lab Number: 18637 Sample Comment:	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	22.1	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.16	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	21.1	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	311	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	311	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.03	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	394	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/6/15	MMH	COD_150506	
E-10195	TOTAL ORGANIC CARBON	0.79	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507	
7440-70-2	CALCIUM	51.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.16	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	36.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	23.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.024	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.128	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

Data Report

7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.105	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-29 - Coupeville Landfill								Sample Date: 4/29/15 1:20 pm			
Lab Number: 18638		Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	40.6	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.14	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	12.7	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	317	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	317	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.26	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	410	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/6/15	MMH	COD_150506	
E-10195	TOTAL ORGANIC CARBON	1.24	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507	
7440-70-2	CALCIUM	34.7	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.10	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	50.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	9.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	26.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.031	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.003	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.032	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.0008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-66-6	ZINC	0.023	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Sample Description: 0415-30 - Coupeville Landfill								Sample Date: 4/29/15 1:40 pm			
Lab Number: 18639		Sample Comment:						Collected By: Matt O'Hare			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
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Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

16887-00-6	CHLORIDE	52.6	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
16984-48-8	FLUORIDE	0.18	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
14808-79-8	SULFATE	40	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A
E-14506	ALKALINITY	350	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504
NA	BICARBONATE	350	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	498	20		mg/L	2.0	SM2540 C	a	5/4/15	MMH	TDS_150504
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/6/15	MMH	COD_150506
E-10195	TOTAL ORGANIC CARBON	1.45	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507
7440-70-2	CALCIUM	70.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.41	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	45.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	30.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.034	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.104	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.120	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-31 - Coupeville Landfill	Sample Date: 4/29/15 2:00 pm
Lab Number: 18640	Sample Comment:
	Collected By: Matt O'Hare

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	54.5	0.1	0.0211	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
14808-79-8	SULFATE	41.3	0.2	0.0174	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-10128	TOTAL NITRATE/NITRITE	1.37	0.1	0.0206	mg/L	1.0	300.0	a	5/1/15	BJ	I150430A	
E-14506	ALKALINITY	332	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	332	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	498	20		mg/L	2.0	SM2540 C	a	5/6/15	MMH	TDS_150506
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/6/15	MMH	COD_150506
E-10195	TOTAL ORGANIC CARBON	1.47	0.15	0.05	mg/L	1.0	SM5310 B	a	5/8/15	BJ	TOC_150507
7440-70-2	CALCIUM	72.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	42.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	5.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	30.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.024	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.065	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	0.0007	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	0.134	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

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 D.F. - Dilution Factor



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18640
Field ID: 0415-31
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18640
Field ID: 0415-31
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18639
Field ID: 0415-30
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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D.F. - Dilution Factor.



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18639
Field ID: 0415-30
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18638
Field ID: 0415-29
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18638
Field ID: 0415-29
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18637
Field ID: 0415-28
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18637
Field ID: 0415-28
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18636
Field ID: 0415-27
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.6		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	5.9		ug/L	0.4	0.4	0.26	1.00	a	Neutr pres: 3.0 ug/L

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18636
Field ID: 0415-27
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	8.70	E	ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18635
Field ID: 0415-26
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18635
Field ID: 0415-26
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18634
Field ID: 0415-25
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18634
Field ID: 0415-25
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18633
Field ID: 0415-24
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.3		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	0.5		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18633
Field ID: 0415-24
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/29/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.530		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18632
Field ID: 0415-23
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18632
Field ID: 0415-23
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18631
Field ID: 0415-22
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18631
Field ID: 0415-22
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18630
Field ID: 0415-21
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18630
Field ID: 0415-21
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/4/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/4/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150504
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18629
Field ID: 0415-20
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18629
Field ID: 0415-20
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	0.028		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18628
Field ID: 0415-19
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18628
Field ID: 0415-19
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18627
Field ID: 0415-18
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18627
Field ID: 0415-18
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.013		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18626
Field ID: 0415-17
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18626
Field ID: 0415-17
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.360		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18625
Field ID: 0415-16
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/11/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/11/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150511
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18625
Field ID: 0415-16
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18624
Field ID: 0415-15
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 3510C

Report Date: 5/18/15
Date Analyzed: 5/8/15
Analyst: CO
Analytical Method: 8151A
Batch: 8151_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
50594-66-1	ACIFLUORFEN	ND		ug/L	0.1	0.1	0.15	1.00	a	
55336-06-1	TRICLOPYR	ND		ug/L	0.1	0.1	0.05	1.00	a	
94-75-7	2,4 - D	ND		ug/L	0.1	0.1	0.05	1.00	a	
94-82-6	2,4 DB	ND		ug/L	0.8	0.8	0.22	1.00	a	
93-72-1	2,4,5 - TP (SILVEX)	ND		ug/L	0.1	0.1	0.04	1.00	a	
93-76-5	2,4,5 T	ND		ug/L	0.1	0.1	0.03	1.00	a	
75-99-0	DALAPON	ND		ug/L	1.3	1.3	0.77	1.00	a	
1918-00-9	DICAMBA	5.6		ug/L	0.1	0.1	0.03	1.00	a	
120-36-5	DICHLORPROP	ND		ug/L	0.1	0.1	0.05	1.00	a	
88-85-7	DINOSEB	ND		ug/L	0.1	0.1	0.13	1.00	a	
94-74-6	MCPA	ND		ug/L	0.1	0.1	0.03	1.00	a	
7085-19-0	MCPP	ND		ug/L	0.1	0.1	0.03	1.00	a	
87-86-5	PENTACHLOROPHENOL	ND		ug/L	0.1	0.1	0.02	1.00	a	
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND		ug/L	0.5	0.5	0.02	1.00	a	
25057-89-1	BENTAZON	ND		ug/L	0.5	0.5	0.03	1.00	a	
133-90-4	CHLORAMBEN	ND		ug/L	0.2	0.2	0.1	1.00	a	
1861-32-1	TOTAL DCPA	ND		ug/L	0.1	0.1	0.04	1.00	a	
1918-02-1	PICLORAM	ND		ug/L	0.2	0.2	0.03	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18624
Field ID: 0415-15
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.2		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18624
Field ID: 0415-15
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18623
Field ID: 0415-14
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18623
Field ID: 0415-14
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18622
Field ID: 0415-13
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.2		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18622
Field ID: 0415-13
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18621
Field ID: 0415-12
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18621
Field ID: 0415-12
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.029		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18620
Field ID: 0415-11
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18620
Field ID: 0415-11
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18619
Field ID: 0415-10
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18619
Field ID: 0415-10
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18618
Field ID: 0415-08
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08135**
Project: Coupeville Landfill

Lab Number: 18618
Field ID: 0415-08
Sample Description: Coupeville Landfill
Matrix: Surface Water
Sample Date: 4/28/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: co,hy,pdm,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150430	0 AMMONIA-N	2.59	2.50	mg/L	350.1	104	90-110	CAL	
6010B-150508A	2 CALCIUM	10.4	11	mg/L	6010B	95	90-110	CAL	
	2 IRON	1.04	1	mg/L	6010B	104	90-110	CAL	
	2 MAGNESIUM	11.1	11	mg/L	6010B	101	90-110	CAL	
	2 POTASSIUM	10.2	10	mg/L	6010B	102	90-110	CAL	
	2 SODIUM	11.2	11	mg/L	6010B	102	90-110	CAL	
	2 ZINC	1	1	mg/L	6010B	100	90-110	CAL	
6020_150512	0 ANTIMONY	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 ARSENIC	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 BARIUM	0.00104	0.001	mg/L	6020A	104	80-120	CAL	
	0 BERYLLIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CADMIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CHROMIUM	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 COBALT	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 LEAD	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 MANGANESE	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 NICKEL	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 SELENIUM	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 SILVER	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 THALLIUM	0.00093	0.001	mg/L	6020A	93	80-120	CAL	
	0 VANADIUM	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 ZINC	0.00103	0.001	mg/L	6020A	103	80-120	CAL	
I150430A	0 CHLORIDE	1.01	1.00	mg/L	300.0	101	90-110	CAL	
	0 FLUORIDE	1	1.00	mg/L	300.0	100	90-110	CAL	
	0 SULFATE	2.02	2.00	mg/L	300.0	101	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.06	2.00	mg/L	300.0	103	90-110	CAL	
TOC_150501	0 TOTAL ORGANIC CARBON	2.53	2.50	mg/L	SM5310 B	101	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_150501	1 TOTAL ORGANIC CARBON	103.5	100	mg/L	SM5310 B	104	90-110	CAL		
	2 TOTAL ORGANIC CARBON	4.98	5.00	mg/L	SM5310 B	100	90-110	CAL		
	3 TOTAL ORGANIC CARBON	0.51	0.50	mg/L	SM5310 B	102	90-110	CAL		
	4 TOTAL ORGANIC CARBON	0.196	0.15	mg/L	SM5310 B	131	90-110	CAL		MRL +/-50%
TOC_150507	0 TOTAL ORGANIC CARBON	2.43	2.50	mg/L	SM5310 B	97	90-110	CAL		
	1 TOTAL ORGANIC CARBON	104.2	100.0	mg/L	SM5310 B	104	90-110	CAL		
	2 TOTAL ORGANIC CARBON	4.96	5.00	mg/L	SM5310 B	99	90-110	CAL		
	3 TOTAL ORGANIC CARBON	0.45	0.50	mg/L	SM5310 B	90	90-110	CAL		
	4 TOTAL ORGANIC CARBON	0.16	0.15	mg/L	SM5310 B	107	90-110	CAL		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B-150508A	0 CALCIUM	24.6	26	mg/L	6010B	95	85-115	LFB	
	0 IRON	0.99	1	mg/L	6010B	99	85-115	LFB	
	0 MAGNESIUM	25.7	26	mg/L	6010B	99	85-115	LFB	
	0 POTASSIUM	35.1	35	mg/L	6010B	100	85-115	LFB	
	0 SODIUM	26.1	26	mg/L	6010B	100	85-115	LFB	
	0 ZINC	0.92	1	mg/L	6010B	92	85-115	LFB	
6020_150512	0 ANTIMONY	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 ARSENIC	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 BARIUM	0.043	0.040	mg/L	6020A	108	80-120	LFB	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 CADMIUM	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 CHROMIUM	0.035	0.040	mg/L	6020A	88	80-120	LFB	
	0 COBALT	0.035	0.040	mg/L	6020A	88	80-120	LFB	
	0 COPPER	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 LEAD	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 MANGANESE	0.036	0.040	mg/L	6020A	90	80-120	LFB	
	0 NICKEL	0.035	0.040	mg/L	6020A	88	80-120	LFB	
	0 SELENIUM	0.036	0.040	mg/L	6020A	90	80-120	LFB	
	0 SILVER	0.020	0.020	mg/L	6020A	100	80-120	LFB	
	0 THALLIUM	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 VANADIUM	0.035	0.040	mg/L	6020A	88	80-120	LFB	
0 ZINC	0.037	0.040	mg/L	6020A	93	80-120	LFB		
8151_150505	0 2,4 - D	1.87	2	ug/L	8151A	94	60-120	LFB	
	0 2,4 DB	2.6	8	ug/L	8151A	33	49-136	LR LFB	
	0 2,4,5 - TP (SILVEX)	0.99	1	ug/L	8151A	99	68-122	LFB	
	0 2,4,5 T	0.92	1	ug/L	8151A	92	62-128	LFB	
	0 3,5 - DICHLOROBENZOIC ACID	0.98	1		8151A	98	70-130	LFB	
	0 ACIFLUORFEN	0.85	1	ug/L	8151A	85	65-125	LFB	
	0 BENTAZON	2.1	2	ug/L	8151A	105	67-121	LFB	
	0 DALAPON	14.7	13	ug/L	8151A	113	53-142	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
8151_150505	0 DICAMBA	0.99	1	ug/L	8151A	99	66-126	LFB	
	0 DICHLORPROP	2.85	3	ug/L	8151A	95	63-123	LFB	
	0 DINOSEB	1.4	2	ug/L	8151A	70	73-127	LFB	
	0 MCPA	0.81	1	ug/L	8151A	81	49-121	LFB	
	0 MCPP	0.86	1	ug/L	8151A	86	48-126	LFB	
	0 PENTACHLOROPHENOL	1.05	1	ug/L	8151A	105	69-123	LFB	
	0 PICLORAM	0.76	1	ug/L	8151A	76	48-114	LFB	
	0 TOTAL DCPA	1.03	1	ug/L	8151A	103	48-168	LFB	
	0 TRICLOPYR	0.93	1		8151A	93	70-130	LFB	
	1 2,4 - D	0.22	0.2	ug/L	8151A	110	60-120	LFB	
	1 2,4 DB	0.29	0.9	ug/L	8151A	32	49-136	LFB	
	1 2,4,5 - TP (SILVEX)	0.11	0.1	ug/L	8151A	110	68-122	LFB	
	1 2,4,5 T	0.11	0.1	ug/L	8151A	110	62-128	LFB	
	1 3,5 - DICHLOROBENZOIC ACID	0.11	0.1		8151A	110	70-130	LFB	
	1 ACIFLUORFEN	0.11	0.1	ug/L	8151A	110	65-125	LFB	
	1 BENTAZON	0.24	0.2	ug/L	8151A	120	67-121	LFB	
	1 DALAPON	1.6	1.4	ug/L	8151A	114	53-142	LFB	
	1 DICAMBA	0.13	0.1	ug/L	8151A	130	66-126	LFB	
	1 DICHLORPROP	0.31	0.3	ug/L	8151A	103	63-123	LFB	
	1 DINOSEB	0.16	0.2	ug/L	8151A	80	73-127	LFB	
1 MCPA	0.11	0.1	ug/L	8151A	110	49-121	LFB		
1 MCPP	0.09	0.1	ug/L	8151A	90	48-126	LFB		
1 PENTACHLOROPHENOL	0.16	0.1	ug/L	8151A	160	69-123	LFB		
1 PICLORAM	0.09	0.1	ug/L	8151A	90	48-114	LFB		
1 TOTAL DCPA	0.11	0.1	ug/L	8151A	110	48-168	LFB		
1 TRICLOPYR	0.11	0.1		8151A	110	70-130	LFB		
8260W_150505	0 1,1 - DICHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150505	0 1,1,2,2 - TETRACHLOROETHANE	5	4	ug/L	8260B	125	80-120	HR	LFB	
	0 1,2 - DICHLOROENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 1,2 - DICHLOROETHANE	4.7	4	ug/L	8260B	118	80-120		LFB	
	0 1,2 - DICHLOROPROPANE	4	4	ug/L	8260B	100	80-120		LFB	
	0 1,2,3 - TRICHLOROPROPANE	5.2	4	ug/L	8260B	130	80-120	HR	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	6.1	4	ug/L	8260B	153	80-120	HR	LFB	
	0 1,4 - DICHLOROENZENE (para)	4.7	4	ug/L	8260B	118	80-120		LFB	
	0 2-BUTANONE (MEK)	8.4	10	ug/L	8260B	84	80-120		LFB	
	0 2-HEXANONE	9.4	10	ug/L	8260B	94	80-120		LFB	
	0 4-METHYL-2-PENTANONE	10.3	10	ug/L	8260B	103	80-120		LFB	
	0 ACETONE	7.5	10	ug/L	8260B	75	80-120	LR	LFB	
	0 BENZENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 BROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 BROMODICHLOROMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 BROMOFORM	4.4	4	ug/L	8260B	110	80-120		LFB	
	0 BROMOMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CARBON DISULFIDE	10.2	10	ug/L	8260B	102	80-120		LFB	
	0 CARBON TETRACHLORIDE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 CHLOROENZENE	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 CHLOROETHANE	2.5	4	ug/L	8260B	63	80-120	LR	LFB	
	0 CHLOROFORM	4.4	4	ug/L	8260B	110	80-120		LFB	
	0 CHLOROMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CIS - 1,2 - DICHLOROETHENE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 DIBROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 DIBROMOMETHANE	4	4	ug/L	8260B	100	80-120		LFB	
	0 ETHYLBENZENE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 M,P- XYLENE	8.3	8	ug/L	8260B	104	80-120		LFB	
	0 METHYL IODIDE	12.2	10	ug/L	8260B	122	80-120	HR	LFB	
	0 METHYLENE CHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 O - XYLENE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 STYRENE	4.1	4	ug/L	8260B	103	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	0 TETRACHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TOLUENE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	12.5	10	ug/L	8260B	125	80-120	HR	LFB
	0 TRICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 TRICHLOROFUOROMETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 VINYL ACETATE	25.8	25	ug/L	8260B	103	80-120	LFB	
	0 VINYL CHLORIDE	4.5	4	ug/L	8260B	113	80-120	LFB	
8260W_150511	0 1,1 - DICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 1,2 - DICHLOROETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 1,2,3 - TRICHLOROPROPANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 1,4 - DICHLOROBENZENE (para)	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 2-BUTANONE (MEK)	9.6	10	ug/L	8260B	96	80-120	LFB	
	0 2-HEXANONE	9.2	10	ug/L	8260B	92	80-120	LFB	
	0 4-METHYL-2-PENTANONE	10.0	10	ug/L	8260B	100	80-120	LFB	
	0 ACETONE	12.0	10	ug/L	8260B	120	80-120	LFB	
	0 BENZENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 BROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 BROMODICHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 BROMOFORM	3.4	4	ug/L	8260B	85	80-120	LFB	
	0 BROMOMETHANE	3.2	4	ug/L	8260B	80	80-120	LE	LFB
0 CARBON DISULFIDE	8.5	10	ug/L	8260B	85	80-120	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
8260W_150511	0 CARBON TETRACHLORIDE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 CHLOROBENZENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 CHLOROETHANE	3.2	4	ug/L	8260B	80	80-120	LFB	
	0 CHLOROFORM	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 CHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 CIS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120	LFB	
	0 DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 ETHYLBENZENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 M,P- XYLENE	7.7	8	ug/L	8260B	96	80-120	LFB	
	0 METHYL IODIDE	8.0	10	ug/L	8260B	80	80-120	LE	LFB
	0 METHYLENE CHLORIDE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 O - XYLENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 STYRENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TETRACHLOROETHYLENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TOLUENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	10.5	10	ug/L	8260B	105	80-120	LFB	
0 TRICHLOROETHENE	3.6	4	ug/L	8260B	90	80-120	LFB		
0 TRICHLOROFLUOROMETHANE	4.0	4	ug/L	8260B	100	80-120	LFB		
0 VINYL ACETATE	10.6	10	ug/L	8260B	106	80-120	LFB		
0 VINYL CHLORIDE	4.7	4	ug/L	8260B	118	80-120	LFB		
COD_150501	0 CHEMICAL OXYGEN DEMAND	54	50	mg/L	SM5220 D	108	90-110	LFB	
cod_150506	0 CHEMICAL OXYGEN DEMAND	48	50	mg/L	SM5220 D	96	90-110	LFB	
SIM_150501	0 1,2 - DIBROMOETHANE (EDB SIM)	0.67	0.7	ug/L	8260SIM	96	70-130	LFB	SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.71	0.7	ug/L	8260SIM	101	70-130	LFB	SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.63	0.7	ug/L	8260SIM	90	70-130	LFB	SIMS ANALYSIS

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
SIM_150504	0 1,2 - DIBROMOETHANE (EDB SIM)	0.099	0.1	ug/L	8260SIM	99	70-130	LFB		SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.098	0.1	ug/L	8260SIM	98	70-130	LFB		SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.099	0.1	ug/L	8260SIM	99	70-130	LFB		SIMS ANALYSIS
TOC_150501	0 TOTAL ORGANIC CARBON	1.04	1.00	mg/L	SM5310 B	104	90-110	LFB		
TOC_150507	0 TOTAL ORGANIC CARBON	0.95	1.00	mg/L	SM5310 B	95	90-110	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150504	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_150430	0 AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B-150508A	0 CALCIUM	ND		mg/L	6010B		0-0	LRB	
	0 IRON	ND		mg/L	6010B		0-0	LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	0 SODIUM	ND		mg/L	6010B		0-0	LRB	
	0 ZINC	ND		mg/L	6010B		0-0	LRB	
6020_150512	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
	0 VANADIUM	ND		mg/L	6020A		0-0	LRB	
	0 ZINC	ND		mg/L	6020A		0-0	LRB	
1150430A	0 CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
TOC_150501	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		LRB	
TOC_150507	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150504	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150430	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B-150508A	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
	0 ZINC	ND		mg/L	6010B		0-0		MB	
6020_150512	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	0.001		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8151_150505	0 2,4 - D	ND		ug/L	8151A		0-0		MB	
	0 2,4 DB	ND		ug/L	8151A		0-0		MB	
	0 2,4,5 - TP (SILVEX)	ND		ug/L	8151A		0-0		MB	
	0 2,4,5 T	ND		ug/L	8151A		0-0		MB	

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NA = Indicates % Recovery could not be calculated.

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Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8151_150505	0 3,5 - DICHLOROBenZOIC ACID	ND			8151A		0-0	MB	
	0 ACIFLUORFEN	ND		ug/L	8151A		0-0	MB	
	0 BENTAZON	ND		ug/L	8151A		0-0	MB	
	0 DALAPON	ND		ug/L	8151A		0-0	MB	
	0 DICAMBA	ND		ug/L	8151A		0-0	MB	
	0 DICHLORPROP	ND		ug/L	8151A		0-0	MB	
	0 DINOSEB	ND		ug/L	8151A		0-0	MB	
	0 MCPA	ND		ug/L	8151A		0-0	MB	
	0 MCPP	ND		ug/L	8151A		0-0	MB	
	0 PENTACHLOROPHENOL	ND		ug/L	8151A		0-0	MB	
	0 PICLORAM	ND		ug/L	8151A		0-0	MB	
	0 TOTAL DCPA	ND		ug/L	8151A		0-0	MB	
	0 TRICLOPYR	ND			8151A		0-0	MB	
8260W_150505	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 2-HEXANONE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 ACETONE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 BENZENE	ND		ug/L	8260B		0-0	MB	TB 15-08133
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08133

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NA = Indicates % Recovery could not be calculated.

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Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135

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Method Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,2 - DICHLOROENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 14-08135
	2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 14-08135
	2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	ACETONE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	BENZENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 14-08135
	BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	1 STYRENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TOLUENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 VINYL ACETATE	ND		ug/L	8260B		0-0	MB	TB 14-08135
	1 VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	TB 14-08135
8260W_150511	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,2 - DICHLOROETHANE (ortho)	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 1,4 - DICHLOROETHANE (para)	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 2-HEXANONE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 ACETONE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 BENZENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 BROMOFORM	ND		ug/L	8260B		0-0	MB	TB 15-08034
0 BROMOMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

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Method Blank

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Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150511	0 CARBON DISULFIDE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CHLOROBENZENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CHLOROFORM	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 M,P- XYLENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 METHYL IODIDE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 O - XYLENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 STYRENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 TOLUENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	TB 15-08034
0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	TB 15-08034	
0 TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-08034	
0 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-08034	
0 VINYL ACETATE	ND		ug/L	8260B		0-0	MB	TB 15-08034	
0 VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	TB 15-08034	
COD_150501	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
cod_150506	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
SIM_150501	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08034
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08034

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
SIM_150501	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08034
SIM_150504	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08133
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08133
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08133
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08135
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08135
	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-08135
TDS_150504	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	1 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	2 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	3 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
TDS_150506	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	1 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
TOC_150501	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	MB	
TOC_150507	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150504	0 ALKALINITY	99.4	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150430	0 AMMONIA-N	2.58	2.60	mg/L	350.1	99	85-115	QCS	
6010B-150508A	0 IRON	2.02	2	mg/L	6010B	101	90-110	QCS	
	0 ZINC	1.98	2	mg/L	6010B	99	90-110	QCS	
	1 CALCIUM	19.1	20	mg/L	6010B	96	90-110	QCS	
	1 MAGNESIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	1 POTASSIUM	20.8	20	mg/L	6010B	104	90-110	QCS	
	1 SODIUM	20.9	20	mg/L	6010B	105	90-110	QCS	
6020_150512	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BARIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 LEAD	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 SILVER	0.020	0.020	mg/L	6020A	100	90-110	QCS	
	0 THALLIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 VANADIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 ZINC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
COD_150501	0 CHEMICAL OXYGEN DEMAND	145	137	mg/L	SM5220 D	106	90-110	QCS	
cod_150506	0 CHEMICAL OXYGEN DEMAND	132	137	mg/L	SM5220 D	96	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-08135**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150430A	0 CHLORIDE	6.1	6.00	mg/L	300.0	102	90-110	QCS	
	0 FLUORIDE	4	4.00	mg/L	300.0	100	90-110	QCS	
	0 SULFATE	30	30.00	mg/L	300.0	100	90-110	QCS	
	0 TOTAL NITRATE/NITRITE	11.86	12.00	mg/L	300.0	99	90-110	QCS	
TDS_150504	0 TOTAL DISSOLVED SOLIDS (TDS)	492	500	mg/L	SM2540 C	98	80-120	QCS	
	1 TOTAL DISSOLVED SOLIDS (TDS)	504	500	mg/L	SM2540 C	101	80-120	QCS	
TDS_150506	0 TOTAL DISSOLVED SOLIDS (TDS)	514	500	mg/L	SM2540 C	103	80-120	QCS	
	1 TOTAL DISSOLVED SOLIDS (TDS)	498	500	mg/L	SM2540 C	100	80-120	QCS	
TOC_150501	0 TOTAL ORGANIC CARBON	5.17	5.20	mg/L	SM5310 B	99	90-110	QCS	
TOC_150507	0 TOTAL ORGANIC CARBON	5.04	5.20	mg/L	SM5310 B	97	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC	
				Result					Qualifier	Type
Duplicate										
310.2_150504										
	18362	ALKALINITY	337	337		mg CaCO3/l	0.0	0-20		DUP
	18364	ALKALINITY	366	367		mg CaCO3/l	0.3	0-20		DUP
	18619	ALKALINITY	387	391		mg CaCO3/l	1.0	0-20		DUP
	18619	BICARBONATE	387	391		mg CaCO3/l	1.0	0-20		DUP
	18629	ALKALINITY	246	249		mg CaCO3/l	1.2	0-20		DUP
	18638	ALKALINITY	317	316		mg CaCO3/l	0.3	0-20		DUP
	18638	BICARBONATE	317	316		mg CaCO3/l	0.3	0-20		DUP
350.1_150430										
	18365	AMMONIA-N	7.15	7.19		mg/L	0.6	0-20		DUP
	18618	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	18628	AMMONIA-N	0.03	0.03		mg/L	0.0	0-20		DUP
	18638	AMMONIA-N	0.26	0.27		mg/L	3.8	0-20		DUP
	18640	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
6010B-150508A										
	18408	IRON	0.01	0.006 J		mg/L	50.0	0-20	IEV	DUP
	18408	CALCIUM	106.6	106.7		mg/L	0.1	0-20		DUP
	18408	MAGNESIUM	72.8	72.8		mg/L	0.0	0-20		DUP
	18408	POTASSIUM	8.5	8.4		mg/L	1.2	0-20		DUP
	18408	SODIUM	40.1	40.1		mg/L	0.0	0-20		DUP
	18620	IRON	0.47	0.53		mg/L	12.0	0-20		DUP
	18620	CALCIUM	63.6	65.4		mg/L	2.8	0-20		DUP
	18620	MAGNESIUM	24.6	25.2		mg/L	2.4	0-20		DUP
	18620	POTASSIUM	5.9	6.0		mg/L	1.7	0-20		DUP
	18620	SODIUM	20.2	20.6		mg/L	2.0	0-20		DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	18630	IRON	0.13	0.14	mg/L	7.4	0-20		DUP	
	18630	CALCIUM	52.0	53.5	mg/L	2.8	0-20		DUP	
	18630	MAGNESIUM	67.7	69.7	mg/L	2.9	0-20		DUP	
	18630	POTASSIUM	9.8	9.9	mg/L	1.0	0-20		DUP	
	18630	SODIUM	42.1	42.9	mg/L	1.9	0-20		DUP	
	18640	IRON	0.03	0.03	mg/L	0.0	0-20		DUP	
	18640	CALCIUM	72.1	70.7	mg/L	2.0	0-20		DUP	
	18640	MAGNESIUM	42.9	42.0	mg/L	2.1	0-20		DUP	
	18640	POTASSIUM	5.2	5.2	mg/L	0.0	0-20		DUP	
	18640	SODIUM	30.1	29.5	mg/L	2.0	0-20		DUP	
6020_150512										
	18408	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	18408	ARSENIC	0.003	0.003	mg/L	0.0	0-20		DUP	
	18408	BARIUM	0.033	0.032	mg/L	3.1	0-20		DUP	
	18408	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	18408	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	18408	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	18408	MANGANESE	0.016	0.016	mg/L	0.0	0-20		DUP	
	18408	NICKEL	0.007	0.007	mg/L	0.0	0-20		DUP	
	18408	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	18408	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	VANADIUM	0.003	0.003	mg/L	0.0	0-20		DUP	
	18408	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	18620	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	18620	ARSENIC	0.009	0.0095	mg/L	5.4	0-20		DUP	
	18620	BARIUM	0.037	0.038	mg/L	2.7	0-20		DUP	
	18620	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	COBALT	ND	ND	mg/L	NA	0-20		DUP	

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NA = Indicates %RPD could not be calculated

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	18620	COPPER	ND	ND	mg/L	NA	0-20			DUP
	18620	LEAD	0.0006	0.0007	mg/L	15.4	0-20			DUP
	18620	MANGANESE	0.154	0.228	mg/L	38.7	0-20	INH		DUP
	18620	NICKEL	0.003	0.003	mg/L	0.0	0-20			DUP
	18620	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	18620	SILVER	ND	ND	mg/L	NA	0-20			DUP
	18620	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	18620	VANADIUM	ND	ND	mg/L	NA	0-20			DUP
	18620	ZINC	ND	ND	mg/L	NA	0-20			DUP
	18630	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	18630	ARSENIC	0.0075	0.0077	mg/L	2.6	0-20			DUP
	18630	BARIUM	0.070	0.071	mg/L	1.4	0-20			DUP
	18630	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	18630	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	18630	CHROMIUM	ND	ND	mg/L	NA	0-20			DUP
	18630	COBALT	ND	ND	mg/L	NA	0-20			DUP
	18630	COPPER	ND	ND	mg/L	NA	0-20			DUP
	18630	LEAD	ND	ND	mg/L	NA	0-20			DUP
	18630	MANGANESE	0.142	0.144	mg/L	1.4	0-20			DUP
	18630	NICKEL	0.001	0.001	mg/L	0.0	0-20			DUP
	18630	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	18630	SILVER	ND	ND	mg/L	NA	0-20			DUP
	18630	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	18630	VANADIUM	ND	ND	mg/L	NA	0-20			DUP
	18630	ZINC	ND	ND	mg/L	NA	0-20			DUP
	18640	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	18640	ARSENIC	0.003	0.003	mg/L	0.0	0-20			DUP
	18640	BARIUM	0.024	0.023	mg/L	4.3	0-20			DUP
	18640	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	18640	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	18640	CHROMIUM	0.001	0.001	mg/L	0.0	0-20			DUP
	18640	COBALT	ND	ND	mg/L	NA	0-20			DUP
	18640	COPPER	0.065	0.063	mg/L	3.1	0-20			DUP
	18640	LEAD	0.0007	0.0007	mg/L	0.0	0-20			DUP

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Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	18640	MANGANESE	0.001	0.001		mg/L	0.0	0-20		DUP	
	18640	NICKEL	0.002	0.002		mg/L	0.0	0-20		DUP	
	18640	SELENIUM	0.001	0.001		mg/L	0.0	0-20		DUP	
	18640	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	18640	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	18640	VANADIUM	0.002	0.002		mg/L	0.0	0-20		DUP	
	18640	ZINC	0.134	0.129		mg/L	3.8	0-20		DUP	
8151_150505											
	18624	DICAMBA	5.6	6.4	E	ug/L	13.3	0-35		DUP	
8260W_150511											
	18626	1,1 - DICHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,1 - DICHLOROETHYLENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,1,1 - TRICHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,1,1,2 - TETRACHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,1,2 - TRICHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,1,2,2 - TETRACHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,2 - DICHLOROBENZENE (ortho)	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,2 - DICHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,2 - DICHLOROPROPANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,2,3 - TRICHLOROPROPANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,2-DIBROMO-3-CHLOROPROPANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	1,4 - DICHLOROBENZENE (para)	ND	ND		ug/L	NA	0-30		DUP	
	18626	2-BUTANONE (MEK)	ND	ND		ug/L	NA	0-30		DUP	
	18626	2-HEXANONE	ND	ND		ug/L	NA	0-30		DUP	
	18626	4-METHYL-2-PENTANONE	ND	ND		ug/L	NA	0-30		DUP	
	18626	ACETONE	ND	ND		ug/L	NA	0-30		DUP	
	18626	BENZENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	BROMOCHLOROMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	BROMODICHLOROMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	BROMOFORM	ND	ND		ug/L	NA	0-30		DUP	
	18626	BROMOMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	CARBON DISULFIDE	ND	ND		ug/L	NA	0-30		DUP	
	18626	CARBON TETRACHLORIDE	ND	ND		ug/L	NA	0-30		DUP	
	18626	CHLOROBENZENE	ND	ND		ug/L	NA	0-30		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	18626	CHLOROETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	CHLOROFORM	ND	ND		ug/L	NA	0-30		DUP	
	18626	CHLOROMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	CIS - 1,2 - DICHLOROETHENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	CIS - 1,3 - DICHLOROPROPENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	DIBROMOCHLOROMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	DIBROMOMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	ETHYLBENZENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	M,P- XYLENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	METHYL IODIDE	ND	ND		ug/L	NA	0-30		DUP	
	18626	METHYLENE CHLORIDE	ND	ND		ug/L	NA	0-30		DUP	
	18626	O - XYLENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	STYRENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TETRACHLOROETHYLENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TOLUENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TRANS - 1,2 - DICHLOROETHENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TRANS - 1,3 - DICHLOROPROPENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TRANS - 1,4 - DICHLORO-2-BUTENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TRICHLOROETHENE	ND	ND		ug/L	NA	0-30		DUP	
	18626	TRICHLOROFLUOROMETHANE	ND	ND		ug/L	NA	0-30		DUP	
	18626	VINYL ACETATE	ND	ND		ug/L	NA	0-30		DUP	
	18626	VINYL CHLORIDE	ND	ND		ug/L	NA	0-30		DUP	
COD_150501											
	17309	CHEMICAL OXYGEN DEMAND	4075	4050		mg/L	0.6	0-20		DUP	
	18435	CHEMICAL OXYGEN DEMAND	126	136		mg/L	7.6	0-20		DUP	
	18626	CHEMICAL OXYGEN DEMAND	14	14		mg/L	0.0	0-20		DUP	
COD_150506											
	18635	CHEMICAL OXYGEN DEMAND	30	27		mg/L	10.5	0-20		DUP	
I150430A											
	16872	CHLORIDE	46.6	46.7		mg/L	0.2	0-20		DUP	
	18618	CHLORIDE	59.5	59.7		mg/L	0.3	0-20		DUP	
	18618	FLUORIDE	0.17	0.16		mg/L	6.1	0-20		DUP	
	18618	SULFATE	37.9	37.9		mg/L	0.0	0-20		DUP	
	18618	TOTAL NITRATE/NITRITE	1.13	1.14		mg/L	0.9	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	18628	CHLORIDE	33.7	33.8		mg/L	0.3	0-20		DUP	
	18628	FLUORIDE	0.16	0.17		mg/L	6.1	0-20		DUP	
	18628	SULFATE	15.7	15.8		mg/L	0.6	0-20		DUP	
	18628	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
	18638	CHLORIDE	40.6	40.6		mg/L	0.0	0-20		DUP	
	18638	FLUORIDE	0.14	0.14		mg/L	0.0	0-20		DUP	
	18638	SULFATE	12.7	12.7		mg/L	0.0	0-20		DUP	
	18638	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
TDS_150504											
	18629	TOTAL DISSOLVED SOLIDS (TDS)	330	344		mg/L	4.2	0-10		DUP	
	18634	TOTAL DISSOLVED SOLIDS (TDS)	546	548		mg/L	0.4	0-10		DUP	
TDS_150506											
	18640	TOTAL DISSOLVED SOLIDS (TDS)	498	492		mg/L	1.2	0-10		DUP	
TOC_150501											
	16632	TOTAL ORGANIC CARBON	0.91	0.92		mg/L	1.1	0-20		DUP	
	17490	TOTAL ORGANIC CARBON	1.14	1.12		mg/L	1.8	0-20		DUP	
	18412	TOTAL ORGANIC CARBON	6.01	5.98		mg/L	0.5	0-20		DUP	
TOC_150507											
	18624	TOTAL ORGANIC CARBON	1.02	1.07		mg/L	4.8	0-20		DUP	
	18634	TOTAL ORGANIC CARBON	1.62	1.68		mg/L	3.6	0-20		DUP	
	19129	TOTAL ORGANIC CARBON	1.05	1.07		mg/L	1.9	0-20		DUP	
	19139	TOTAL ORGANIC CARBON	1.61	1.60		mg/L	0.6	0-20		DUP	
	19812	TOTAL ORGANIC CARBON	0.55	0.60		mg/L	8.7	0-20		DUP	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150504															
	18362	ALKALINITY	337	562	563	250	mg CaCO3/90	90		70-130	0.4	0-20			LFM
	18364	ALKALINITY	366	453	455	250	mg CaCO3/35	36		70-130	2.3	0-20	IM		LFM
	18619	ALKALINITY	387	541	558	250	mg CaCO3/62	68		70-130	10.5	0-20	IM		LFM
	18619	BICARBONATE	387	541	558	250	mg CaCO3/62	68		70-130	10.5	0-20	IM		LFM
	18629	ALKALINITY	246	461	456	250	mg CaCO3/86	84		70-130	2.4	0-20			LFM
	18629	BICARBONATE	246	461	456	250	mg CaCO3/86	84		70-130	2.4	0-20			LFM
	18638	ALKALINITY	317	545	545	250	mg CaCO3/91	91		70-130	0.0	0-20			LFM
	18638	BICARBONATE	317	545	545	250	mg CaCO3/91	91		70-130	0.0	0-20			LFM
350.1_150430															
	18365	AMMONIA-N	7.15	8.01	8.31	1.00	mg/L	86	116	70-130	29.7	0-20	IM		LFM
	18618	AMMONIA-N	ND	1.06	1.06	1.00	mg/L	106	106	70-130	0.0	0-20			LFM
	18628	AMMONIA-N	0.03	1.10	1.07	1.00	mg/L	107	104	70-130	2.8	0-20			LFM
	18638	AMMONIA-N	0.26	1.35	1.33	1.00	mg/L	109	107	70-130	1.9	0-20			LFM
	18640	AMMONIA-N	ND	1.09	1.07	1.00	mg/L	109	107	70-130	1.9	0-20			LFM
6010B-150508A															
	18408	IRON	0.01	1.00		1.00	mg/L	99		75-125	NA	0-20			LFM
	18408	CALCIUM	106.6	127.7		26.0	mg/L	81		75-125	NA	0-20			LFM
	18408	MAGNESIUM	72.8	95.8		26.0	mg/L	88		75-125	NA	0-20			LFM
	18408	POTASSIUM	8.5	43.4		35.0	mg/L	100		75-125	NA	0-20			LFM
	18620	IRON	0.47	1.58		1.00	mg/L	111		75-125	NA	0-20			LFM
	18620	CALCIUM	63.6	88.4		26.0	mg/L	95		75-125	NA	0-20			LFM
	18620	MAGNESIUM	24.6	49.5		26.0	mg/L	96		75-125	NA	0-20			LFM
	18620	POTASSIUM	5.9	40.3		35.0	mg/L	98		75-125	NA	0-20			LFM
	18630	IRON	0.13	1.14		1.00	mg/L	101		75-125	NA	0-20			LFM
	18630	CALCIUM	52.0	76.7		26.0	mg/L	95		75-125	NA	0-20			LFM
	18630	MAGNESIUM	67.7	93.1		26.0	mg/L	98		75-125	NA	0-20			LFM
	18630	POTASSIUM	9.8	44.5		35.0	mg/L	99		75-125	NA	0-20			LFM
	18640	IRON	0.03	0.08		0.05	mg/L	100		75-125	NA	0-20			LFM
	18640	CALCIUM	72.1	95.6		26.0	mg/L	90		75-125	NA	0-20			LFM
	18640	MAGNESIUM	42.9	66.8		26.0	mg/L	92		75-125	NA	0-20			LFM
	18640	POTASSIUM	5.2	39.1		35.0	mg/L	97		75-125	NA	0-20			LFM
6020_150512															

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	18408	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20			LFM	
	18408	ARSENIC	0.003	0.055		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18408	BARIUM	0.033	0.084		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	BERYLLIUM	ND	0.052		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18408	CADMIUM	ND	0.053		0.050	mg/L	106		75-125	NA	0-20			LFM	
	18408	CHROMIUM	ND	0.048		0.050	mg/L	96		75-125	NA	0-20			LFM	
	18408	COBALT	ND	0.047		0.050	mg/L	94		75-125	NA	0-20			LFM	
	18408	COPPER	0.001	0.052		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	LEAD	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	MANGANESE	0.016	0.063		0.050	mg/L	94		75-125	NA	0-20			LFM	
	18408	NICKEL	0.007	0.051		0.050	mg/L	88		75-125	NA	0-20			LFM	
	18408	SELENIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	SILVER	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM	
	18408	THALLIUM	ND	0.052		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18408	VANADIUM	0.003	0.051		0.050	mg/L	96		75-125	NA	0-20			LFM	
	18408	ZINC	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18620	ANTIMONY	ND	0.057		0.050	mg/L	114		75-125	NA	0-20			LFM	
	18620	ARSENIC	0.009	0.063		0.050	mg/L	108		75-125	NA	0-20			LFM	
	18620	BARIUM	0.037	0.092		0.050	mg/L	110		75-125	NA	0-20			LFM	
	18620	BERYLLIUM	ND	0.054		0.050	mg/L	108		75-125	NA	0-20			LFM	
	18620	CADMIUM	ND	0.054		0.050	mg/L	108		75-125	NA	0-20			LFM	
	18620	CHROMIUM	ND	0.049		0.050	mg/L	98		75-125	NA	0-20			LFM	
	18620	COBALT	ND	0.049		0.050	mg/L	98		75-125	NA	0-20			LFM	
	18620	COPPER	ND	0.053		0.050	mg/L	106		75-125	NA	0-20			LFM	
	18620	LEAD	0.0006	0.052		0.050	mg/L	103		75-125	NA	0-20			LFM	
	18620	MANGANESE	0.154	0.307		0.050	mg/L	306		75-125	NA	0-20	INH		LFM	
	18620	NICKEL	0.003	0.050		0.050	mg/L	94		75-125	NA	0-20			LFM	
	18620	SELENIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18620	SILVER	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM	
	18620	THALLIUM	ND	0.052		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18620	VANADIUM	ND	0.050		0.050	mg/L	100		75-125	NA	0-20			LFM	
	18620	ZINC	ND	0.053		0.050	mg/L	106		75-125	NA	0-20			LFM	
	18630	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20			LFM	
	18630	ARSENIC	0.007	0.060		0.050	mg/L	106		75-125	NA	0-20			LFM	

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				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
18630	BARIUM		0.070	0.128		0.050	mg/L	116			75-125	NA	0-20		LFM	
18630	BERYLLIUM		ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
18630	CADMIUM		ND	0.053		0.050	mg/L	106			75-125	NA	0-20		LFM	
18630	CHROMIUM		ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
18630	COBALT		ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
18630	COPPER		ND	0.053		0.050	mg/L	106			75-125	NA	0-20		LFM	
18630	LEAD		ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
18630	MANGANESE		0.142	0.201		0.050	mg/L	118			75-125	NA	0-20		LFM	
18630	NICKEL		0.001	0.048		0.050	mg/L	94			75-125	NA	0-20		LFM	
18630	SELENIUM		ND	0.050		0.050	mg/L	100			75-125	NA	0-20		LFM	
18630	SILVER		ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
18630	THALLIUM		ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
18630	VANADIUM		ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
18630	ZINC		ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
18640	ANTIMONY		ND	0.056		0.050	mg/L	112			75-125	NA	0-20		LFM	
18640	ARSENIC		0.003	0.055		0.050	mg/L	104			75-125	NA	0-20		LFM	
18640	BARIUM		0.024	0.076		0.050	mg/L	104			75-125	NA	0-20		LFM	
18640	BERYLLIUM		ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
18640	CADMIUM		ND	0.053		0.050	mg/L	106			75-125	NA	0-20		LFM	
18640	CHROMIUM		0.001	0.048		0.050	mg/L	94			75-125	NA	0-20		LFM	
18640	COBALT		ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
18640	COPPER		0.065	0.116		0.050	mg/L	102			75-125	NA	0-20		LFM	
18640	LEAD		0.0007	0.052		0.050	mg/L	103			75-125	NA	0-20		LFM	
18640	MANGANESE		0.001	0.049		0.050	mg/L	96			75-125	NA	0-20		LFM	
18640	NICKEL		0.002	0.049		0.050	mg/L	94			75-125	NA	0-20		LFM	
18640	SELENIUM		0.001	0.052		0.050	mg/L	102			75-125	NA	0-20		LFM	
18640	SILVER		ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
18640	THALLIUM		ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
18640	VANADIUM		0.002	0.051		0.050	mg/L	98			75-125	NA	0-20		LFM	
18640	ZINC		0.134	0.194		0.050	mg/L	120			75-125	NA	0-20		LFM	
8151_150505																
18624	2,4 - D		ND	4.8		4.4	ug/L	109	NA		60-120	NA	0-20		LFM	
18624	2,4 DB		ND	6.5		17.8	ug/L	37	NA		49-134	NA	0-20	LR	LFM	
18624	2,4,5 - TP (SILVEX)		ND	2.5		2.2	ug/L	114	NA		68-122	NA	0-20		LFM	

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	18624	2,4,5 T	ND	2.6		2.2	ug/L	118	NA	62-128	NA	0-20			LFM
	18624	3,5 - DICHLORO BENZOIC ACID	ND	2.5		2.2		114	NA	70-130	NA	0-20			LFM
	18624	ACIFLUORFEN	ND	2.3		2.2	ug/L	105	NA	65-125	NA	0-20			LFM
	18624	BENTAZON	ND	5.2		4.4	ug/L	118	NA	67-121	NA	0-20			LFM
	18624	DALAPON	ND	34.4		28.9	ug/L	119	NA	53-421	NA	0-20			LFM
	18624	DICAMBA	5.6	7.8		2.2	ug/L	100	NA	66-126	NA	0-20			LFM
	18624	DICHLORPROP	ND	7.2		6.7	ug/L	107	NA	63-123	NA	0-20			LFM
	18624	DINOSEB	ND	3.4		4.4	ug/L	77	NA	73-127	NA	0-20			LFM
	18624	MCPA	ND	2.1		2.2	ug/L	95	NA	49-121	NA	0-20			LFM
	18624	MCPP	ND	2.1		2.2	ug/L	95	NA	48-126	NA	0-20			LFM
	18624	PENTACHLOROPHENOL	ND	2.5		2.2	ug/L	114	NA	69-123	NA	0-20			LFM
	18624	PICLORAM	ND	2.2		2.2	ug/L	100	NA	48-114	NA	0-20			LFM
	18624	TOTAL DCPA	ND	2.7		2.2	ug/L	123	NA	48-168	NA	0-20			LFM
	18624	TRICLOPYR	ND	2.4		2.2		109	NA	70-130	NA	0-20			LFM
8260W_150505															
	18614	1,1 - DICHLOROETHANE	2.3	5.8	6.3	4	ug/L	88	100	70-130	13.3	0-20			LFM
	18614	1,1 - DICHLOROETHYLENE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20			LFM
	18614	1,1,1 - TRICHLOROETHANE	0.8	4.6	4.8	4	ug/L	95	100	70-130	5.1	0-20			LFM
	18614	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	4.3	4	ug/L	103	108	70-130	4.8	0-20			LFM
	18614	1,1,2 - TRICHLOROETHANE	ND	3.5	3.5	4	ug/L	88	88	70-130	0.0	0-20			LFM
	18614	1,1,2,2 - TETRACHLOROETHANE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20			LFM
	18614	1,2 - DICHLOROBENZENE (ortho)	ND	4	4.2	4	ug/L	100	105	70-130	4.9	0-20			LFM
	18614	1,2 - DICHLOROETHANE	ND	4.3	4.3	4	ug/L	108	108	70-130	0.0	0-20			LFM
	18614	1,2 - DICHLOROPROPANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4	0-20			LFM
	18614	1,2,3 - TRICHLOROPROPANE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2	0-20			LFM
	18614	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	4.6	4	ug/L	120	115	70-130	4.3	0-20			LFM
	18614	1,4 - DICHLOROBENZENE (para)	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20			LFM
	18614	BENZENE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7	0-20			LFM
	18614	BROMOCHLOROMETHANE	ND	3.3	3.6	4	ug/L	83	90	70-130	8.7	0-20			LFM
	18614	BROMODICHLOROMETHANE	ND	3.7	3.9	4	ug/L	93	98	70-130	5.3	0-20			LFM
	18614	BROMOFORM	ND	3.9	4.2	4	ug/L	98	105	70-130	7.4	0-20			LFM
	18614	BROMOMETHANE	ND	2.1	2.7	4	ug/L	53	68	70-130	25.0	0-20	LR		LFM
	18614	CARBON TETRACHLORIDE	ND	3.8	4.2	4	ug/L	95	105	70-130	10.0	0-20			LFM
	18614	CHLORO BENZENE	ND	3.9	4.3	4	ug/L	98	108	70-130	9.8	0-20			LFM

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	18614	CHLOROETHANE	ND	2.8	3	4	ug/L	70	75	70-130	6.9	0-20		LFM	
	18614	CHLOROFORM	ND	4	4.2	4	ug/L	100	105	70-130	4.9	0-20		LFM	
	18614	CHLOROMETHANE	ND	3.4	3.8	4	ug/L	85	95	70-130	11.1	0-20		LFM	
	18614	CIS - 1,2 - DICHLOROETHENE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1	0-20		LFM	
	18614	CIS - 1,3 - DICHLOROPROPENE	ND	2.9	3.1	4	ug/L	73	78	70-130	6.7	0-20		LFM	
	18614	DIBROMOCHLOROMETHANE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0	0-20		LFM	
	18614	DIBROMOMETHANE	ND	3.5	3.9	4	ug/L	88	98	70-130	10.8	0-20		LFM	
	18614	ETHYLBENZENE	ND	3.7	4	4	ug/L	93	100	70-130	7.8	0-20		LFM	
	18614	M,P- XYLENE	ND	7.4	8	8	ug/L	93	100	70-130	7.8	0-20		LFM	
	18614	METHYLENE CHLORIDE	0.8	4.3	4.5	4	ug/L	88	93	70-130	5.6	0-20		LFM	
	18614	O - XYLENE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0	0-20		LFM	
	18614	STYRENE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0	0-20		LFM	
	18614	TETRACHLOROETHYLENE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1	0-20		LFM	
	18614	TOLUENE	ND	3.1	3.5	4	ug/L	78	88	70-130	12.1	0-20		LFM	
	18614	TRANS - 1,2 - DICHLOROETHENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM	
	18614	TRANS - 1,3 - DICHLOROPROPENE	ND	2.8	2.9	4	ug/L	70	73	70-130	3.5	0-20		LFM	
	18614	TRICHLOROETHENE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7	0-20		LFM	
	18614	TRICHLOROFLUOROMETHANE	63.6	55	57.5	4	ug/L	-215	-153	70-130	34.0	0-20	S	LFM	
	18614	VINYL CHLORIDE	7.8	10.8	12.5	4	ug/L	75	118	70-130	44.2	0-20		LFM	
8260W_150511															
	18625	1,1 - DICHLOROETHANE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	1,1 - DICHLOROETHYLENE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	18625	1,1,1 - TRICHLOROETHANE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20		LFM	
	18625	1,1,1,2 - TETRACHLOROETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	18625	1,1,2 - TRICHLOROETHANE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	1,1,2,2 - TETRACHLOROETHANE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	1,2 - DICHLOROBENZENE (ortho)	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	18625	1,2 - DICHLOROETHANE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	18625	1,2 - DICHLOROPROPANE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	1,2,3 - TRICHLOROPROPANE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	18625	1,4 - DICHLOROBENZENE (para)	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	BENZENE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20		LFM	
	18625	BROMOCHLOROMETHANE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	18625	BROMODICHLOROMETHANE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	18625	BROMOFORM	ND	3.3		4	ug/L	83	NA	70-130	NA	0-20		LFM	
	18625	BROMOMETHANE	ND	2.7		4	ug/L	68	NA	70-130	NA	0-20	LR	LFM	
	18625	CARBON TETRACHLORIDE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	CHLOROETHANE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	CHLOROETHANE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	CHLOROFORM	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	CHLOROMETHANE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	18625	CIS - 1,2 - DICHLOROETHENE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	CIS - 1,3 - DICHLOROPROPENE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	18625	DIBROMOCHLOROMETHANE	ND	3.1		4	ug/L	78	NA	70-130	NA	0-20		LFM	
	18625	DIBROMOMETHANE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	ETHYLBENZENE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	M,P- XYLENE	ND	7.3		8	ug/L	91	NA	70-130	NA	0-20		LFM	
	18625	METHYLENE CHLORIDE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	O - XYLENE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	18625	STYRENE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	18625	TETRACHLOROETHYLENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	18625	TOLUENE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	TRANS - 1,2 - DICHLOROETHENE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	18625	TRANS - 1,3 - DICHLOROPROPENE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	18625	TRICHLOROETHENE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20		LFM	
	18625	TRICHLOROFUOROMETHANE	ND	4.4		4	ug/L	110	NA	70-130	NA	0-20		LFM	
	18625	VINYL CHLORIDE	ND	2.9		4	ug/L	73	NA	70-130	NA	0-20		LFM	
COD_150501															
	17309	CHEMICAL OXYGEN DEMAND	4075	5025	5175	1250	mg/L	76	88	70-130	14.6	0-20	IM	LFM	
	18435	CHEMICAL OXYGEN DEMAND	126	176	176	50	mg/L	100	100	70-130	0.0	0-20		LFM	
	18626	CHEMICAL OXYGEN DEMAND	14	62	59	50	mg/L	96	90	70-130	6.5	0-20		LFM	
COD_150506															
	18635	CHEMICAL OXYGEN DEMAND	30	78	74	50	mg/L	96	88	70-130	8.7	0-20		LFM	
I150430A															
	16872	CHLORIDE	46.6	46.9		1.00	mg/L	30		90-110	NA	0-20	IS	LFM	
	18618	CHLORIDE	59.5	58.9		1	mg/L	-60	NA	90-110	NA	0-20	IS	LFM	
	18618	FLUORIDE	0.17	1.11		1	mg/L	94	NA	90-110	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	18618	SULFATE	37.9	38.9		2	mg/L	50	NA	90-110	NA	0-20	IS	LFM	
	18618	TOTAL NITRATE/NITRITE	1.13	3.09		2	mg/L	98	NA	90-110	NA	0-20		LFM	
	18628	CHLORIDE	33.7	33.5		1	mg/L	-20	NA	90-110	NA	0-20	IS	LFM	
	18628	FLUORIDE	0.16	1.11		1	mg/L	95	NA	90-110	NA	0-20		LFM	
	18628	SULFATE	15.7	17.3		2	mg/L	80	NA	90-110	NA	0-20	IS	LFM	
	18628	TOTAL NITRATE/NITRITE	ND	2.1		2	mg/L	105	NA	90-110	NA	0-20		LFM	
	18638	CHLORIDE	40.6	40.4		1	mg/L	-20	NA	90-110	NA	0-20	IS	LFM	
	18638	FLUORIDE	0.14	1.1		1	mg/L	96	NA	90-110	NA	0-20		LFM	
	18638	SULFATE	12.7	14.3		2	mg/L	80	NA	90-110	NA	0-20	IS	LFM	
	18638	TOTAL NITRATE/NITRITE	ND	2.07		2	mg/L	104	NA	90-110	NA	0-20		LFM	
SIM_150501															
	18409	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.200		0.2	ug/L	100		70-130	NA	0-20		LFM	
	18409	ACRYLONITRILE (SIM)	ND	0.215		0.2	ug/L	108		70-130	NA	0-20		LFM	
	18409	VINYL CHLORIDE (SIM)	ND	0.168		0.2	ug/L	84		70-130	NA	0-20		LFM	
SIM_150504															
	18614	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.23	0.23	0.2	ug/L	115	115	70-130	0.0	0-20		LFM	
	18614	ACRYLONITRILE (SIM)	ND	0.25	0.23	0.2	ug/L	125	115	70-130	8.3	0-20		LFM	
	18614	VINYL CHLORIDE (SIM)	10.3	11.8	E 11.5	E 0.2	ug/L	750	600	70-130	22.2	0-20	S	LFM	
TOC_150501															
	16632	TOTAL ORGANIC CARBON	0.91	4.80		4.00	mg/L	97		70-130	NA	0-20		LFM	
	17291	TOTAL ORGANIC CARBON	0.50	4.26		4.00	mg/L	94		70-130	NA	0-20		LFM	
	17490	TOTAL ORGANIC CARBON	1.14	5.12		4.00	mg/L	100		70-130	NA	0-20		LFM	
	18412	TOTAL ORGANIC CARBON	6.01	9.83		4.00	mg/L	96		70-130	NA	0-20		LFM	
TOC_150507															
	18624	TOTAL ORGANIC CARBON	1.02	4.82		4.00	mg/L	95		70-130	NA	0-20		LFM	
	18634	TOTAL ORGANIC CARBON	1.62	5.38		4.00	mg/L	94		70-130	NA	0-20		LFM	
	19129	TOTAL ORGANIC CARBON	1.05	4.90		4.00	mg/L	96		70-130	NA	0-20		LFM	
	19139	TOTAL ORGANIC CARBON	1.61	9.23		8.00	mg/L	95		70-130	NA	0-20		LFM	
	19812	TOTAL ORGANIC CARBON	0.55	4.36		4.00	mg/L	95		70-130	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-08135

Report Date: 05/18/15

Qualifier	Definition
E	Indicates that the concentration exceeds the calibration range. Values which are outside the calibration curve are estimates only.
HR	High QCS recovery due to increased detector response No sample detections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
LE	The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1

OF 3



REPORT TO: SCS ENGINEERS
 ADDRESS: 2405 140TH AVE. NE STE 107
 CITY: BELLEVUE STATE: WA ZIP: 98005
 ATTN: ELENA RAMIREZ
 PHONE: 425-746-4600 FAX: 425-746-6747
 EMAIL: eramirez@scsengineers.com
 PROJECT NAME: COUPEVILLE LANDFILL

BILL TO: ISLAND COUNTY SOLID WASTE
 ADDRESS: PO Box 5000
 CITY: Coupeville STATE: WA ZIP: 98239
 PHONE: 360-678-7338 FAX:
 P.O.#:
 VISA M/C A/E EXPIRES /

FOR LAB USE ONLY
 REF#
 CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

Wilsonville Lab (503-682-7802)
 1620 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225

INSTRUCTIONS

- USE ONE LINE PER SAMPLE LOCATION.
- BE SPECIFIC IN TEST REQUESTS.
- NEW LIST EACH METAL INDIVIDUALLY. NEW
- CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
- ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) (PHONE CALL REQ.)
 EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
1	0415-08 Coupeville Landfill	G	GW	4/28/15	0930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	5 or 4.9.15
2	0415-08 Coupeville Landfill	G	GW	4/28/15	0930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	All 4 coders below loc
3	0415-10 Coupeville Landfill	G	GW	4/28/15	1010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	packed in ice. -18
4	0415-11 Coupeville Landfill	G	GW	4/28/15	0937	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	4.29.15
5	0415-12 Coupeville Landfill	G	GW	4/28/15	1110	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
6	0415-13 Coupeville Landfill	G	GW	4/28/15	1026	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
7	0415-14 Coupeville Landfill	G	GW	4/28/15	1151	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
8	0415-15 Coupeville Landfill	G	GW	4/28/15	1141	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
9	0415-16 Coupeville Landfill	G	GW	4/28/15	1155	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
10	0415-17 Coupeville Landfill	G	GW	4/28/15	1235	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER DW-DRINKING WATER SW-SURFACE WATER GW-GROUND WATER WW-WASTE WATER S-SOIL OL-OIL OTHER

SAMPLED BY: *MKT Diller* PHONE: *253-289-5192* FAX: *253-289-5192* EMAIL: *Madeline@scsengineers.com*

RELINQUISHED BY: *[Signature]* DATE: *4/29/15* TIME: *1410* RECEIVED BY: *[Signature]* DATE: *4/29/15* TIME: *1630*

CUSTOMER SEALS INTACT YES NO N/A
 SAMPLE TEMP *6* °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)



REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	FOR LAB USE ONLY
ADDRESS: 2405 140TH AVE. NE STE 107	ADDRESS: PO Box 5000	REF#
CITY: BELLEVUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	CHECK REGULATORY PROGRAM
ATTN: ELENA RAMIREZ	PHONE: 360-678-7338 FAX: 360-678-7338	<input type="checkbox"/> SAFE DRINKING WATER ACT
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#:	<input type="checkbox"/> CLEAN WATER ACT
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> MC <input type="checkbox"/> AE <input type="checkbox"/> EXP. /	<input type="checkbox"/> RCRA / CERCLA
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	<input type="checkbox"/> OTHER

WILSONVILLE LAB (503-682-7802)
 1620 South Walnut St. Burlington, WA 98233
MICROBIOLOGY (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
WILSONVILLE LAB (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
CORVALLIS LAB (541-753-4945)
 540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW! LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED	
<input checked="" type="checkbox"/> STANDARD	<input type="checkbox"/> HALF-TIME (50% SURCHARGE)
<input type="checkbox"/> QUICKEST (100% SURCHARGE) PHONE CALL REQ.	<input type="checkbox"/> EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	0415-18	Coupeville Landfill	G	GW	4/28/15	1415	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
2	0415-19	Coupeville Landfill	G	GW	4/28/15	1439	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
3	0415-20	Coupeville Landfill	G	GW	4/28/15	1453	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
4	0415-21	Coupeville Landfill	G	GW	4/28/15	1554	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
5	0415-22	Coupeville Landfill	G	GW	4/28/15	1655	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
6	0415-23	Coupeville Landfill	G	GW	4/28/15	1702	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
7	0415-24	Coupeville Landfill	G	GW	4/28/15	0940	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
8	0415-25	Coupeville Landfill	G	GW	4/28/15	0903	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
9	0415-26	Coupeville Landfill	G	GW	4/28/15	1235	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
10	0415-27	Coupeville Landfill	G	GW	4/28/15	1035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER * DW-DRINKING WATER SW-SURFACE WATER GW-GROUND WATER WW-WASTE WATER S-SOIL OL-OIL OTHER _____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Sara Graber	4/29/15	1610	[Signature]	4-29-15	1630

CUSTOMY SEALS INTACT YES NO N/A

SAMPLE TEMP _____ °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A

SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO N/A

REPORT TO: **SCS ENGINEERS**
 ADDRESS: **2405 140TH AVE. NE STE 107**
 CITY: **BELLEVUE** STATE: **WA** ZIP: **98005**
 ATTN: **ELENA RAMIREZ** PHONE: **425-746-4600** FAX: **425-746-6747**
 EMAIL: **eramirez@scsengineers.com**
 PROJECT NAME: **COUPEVILLE LANDFILL**

BILL TO: **ISLAND COUNTY SOLID WASTE**
 ADDRESS: **PO Box 5000**
 CITY: **Coupeville** STATE: **WA** ZIP: **98239**
 PHONE: **360-678-7338** FAX:
 P.O.#:
 VISA M/C A/E EXP. DATE: / /

REF#
FOR LAB USE ONLY
 CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

EDGEE
 ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Willsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Willsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

- INSTRUCTIONS**
1. USE ONE LINE PER SAMPLE LOCATION.
 2. BE SPECIFIC IN TEST REQUESTS.
 3. NEW LIST EACH METAL INDIVIDUALLY. NEW
 4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
 5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3,COD	8260B	8260SIM	Chloride, Sulfate,TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
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1	0415-28	Coupeville Landfill	G	GW	4/29/15	1300	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2	0415-29	Coupeville Landfill	G	GW		1320	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3	0415-30	Coupeville Landfill	G	GW		1340	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4	0415-31	Coupeville Landfill	G	GW		1400	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
5	0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6	0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7	0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8	0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9	0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10	0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLED BY: *A. H. O'Hare* PHONE: *125-284-5432* FAX:
 EMAIL: *ahohare@scsengineers.com*

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER *
 DW-DRINKING WATER SW-SURFACE WATER GW-GROUND WATER
 WW-WASTE WATER S-SOIL OL-OIL
 OTHER _____

CUSTOMY SEALS INTACT YES NO N/A
 SAMPLE TEMP _____ °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

May 18, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-08034 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Tuesday April 28, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-08034**
 Project: Coupeville Landfill

Report Date: 5/18/15

Date Received: 4/28/15

Approved by: bj,mvp,sps

Authorized by:

Lawrence J Henderson, PhD
 Director of Laboratories, Vice President

Sample Description: 0415-01 - Coupeville Landfill Sample Date: 4/27/15 3:52 pm
 Lab Number: 18408 Sample Comment: Collected By: Matt O'Hare/Sam Grar

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	68	0.1	0.0211	mg/L	1.0	300.0	a	5/5/15	BJ	I150504A	
16984-48-8	FLUORIDE	0.11	0.1	0.0054	mg/L	1.0	300.0	a	5/5/15	BJ	I150504A	
14808-79-8	SULFATE	61	0.2	0.0174	mg/L	1.0	300.0	a	5/5/15	BJ	I150504A	
E-14506	ALKALINITY	525	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	525	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	716	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501	
E-10128	TOTAL NITRATE/NITRITE	2.69	0.01	0.0011	mg/L	1.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.69	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	106.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.01 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	72.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	8.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	40.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.033	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.016	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-02 - Coupeville Landfill								Sample Date: 4/27/15 11:11 am				
Lab Number: 18409				Sample Comment:				Collected By: Matt O'Hare/Sam Grar				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	15.4	0.1	0.0211	mg/L	1.0	300.0	a	5/5/15	BJ	I150504A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	5/5/15	BJ	I150504A	
14808-79-8	SULFATE	56.6	0.2	0.0174	mg/L	1.0	300.0	a	5/5/15	BJ	I150504A	
E-14506	ALKALINITY	322	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	322	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	488	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501	
E-10128	TOTAL NITRATE/NITRITE	6.44	0.02	0.0011	mg/L	2.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	0.88	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	94.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.09	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	32.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	5.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	17.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.034	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.006	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.019	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-66-6	ZINC	0.004	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. = Dilution Factor

Data Report

Sample Description: 0415-03 - Coupeville Landfill										Sample Date: 4/27/15 12:52 pm					
Lab Number: 18410										Sample Comment:			Collected By: Matt O'Hare/Sam Grar		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment			
16887-00-6	CHLORIDE	7	0.1	0.0211	mg/L	1.0	300.0	a	5/4/15	BJ	I150504A				
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	5/4/15	BJ	I150504A				
14808-79-8	SULFATE	148	0.2	0.0174	mg/L	1.0	300.0	a	5/4/15	BJ	I150504A				
E-14506	ALKALINITY	331	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504				
NA	BICARBONATE	331	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504				
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430				
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	633	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501				
E-10128	TOTAL NITRATE/NITRITE	6.44	0.02	0.0011	mg/L	2.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429				
E-10117	CHEMICAL OXYGEN DEMAND	16	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501				
E-10195	TOTAL ORGANIC CARBON	6.13	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501				
7440-70-2	CALCIUM	102.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A				
7439-89-6	IRON	0.13	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A				
7439-95-4	MAGNESIUM	46.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A				
7440-09-7	POTASSIUM	5.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A				
7440-23-5	SODIUM	27.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A				
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-39-3	BARIUM	0.048	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-47-3	CHROMIUM	0.007	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-50-8	COPPER	0.003	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7439-96-5	MANGANESE	0.012	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-02-0	NICKEL	0.009	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-62-2	VANADIUM	0.0025	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512				

Sample Description: 0415-04 - Coupeville Landfill										Sample Date: 4/27/15 12:16 pm					
Lab Number: 18411										Sample Comment:			Collected By: Matt O'Hare/Sam Grar		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment			
16887-00-6	CHLORIDE	37	0.1	0.0211	mg/L	1.0	300.0	a	5/4/15	BJ	I150504A				
16984-48-8	FLUORIDE	0.15	0.1	0.0054	mg/L	1.0	300.0	a	5/4/15	BJ	I150504A				
14808-79-8	SULFATE	36	0.2	0.0174	mg/L	1.0	300.0	a	5/4/15	BJ	I150504A				

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-14506	ALKALINITY	276	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504
NA	BICARBONATE	276	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	397	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501
E-10128	TOTAL NITRATE/NITRITE	0.02	0.01	0.0011	mg/L	1.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501
E-10195	TOTAL ORGANIC CARBON	0.79	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501
7440-70-2	CALCIUM	59.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.04 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	35.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	6.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	26.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.022	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.014	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.004	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.0015	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-05 - Coupeville Landfill	Sample Date: 4/27/15 12:52 pm
Lab Number: 18412 Sample Comment:	Collected By: Matt O'Hare/Sam Grar

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	7.3	0.1	0.0211	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
14808-79-8	SULFATE	167	0.2	0.0174	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
E-14506	ALKALINITY	330	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	330	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	644	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501	
E-10128	TOTAL NITRATE/NITRITE	6.53	0.02	0.0011	mg/L	2.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429	
E-10117	CHEMICAL OXYGEN DEMAND	17	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	6.01	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501
7440-70-2	CALCIUM	100.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-89-6	IRON	0.05	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7439-95-4	MAGNESIUM	45.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-09-7	POTASSIUM	5.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-23-5	SODIUM	27.4	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.036	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	0.007	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	0.0026	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-06 - Coupeville Landfill								Sample Date: 4/27/15 4:35 pm				
Lab Number: 18413		Sample Comment:						Collected By: Matt O'Hare/Sam Grar				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	123	0.1	0.0211	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
16984-48-8	FLUORIDE	0.19	0.1	0.0054	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
14808-79-8	SULFATE	134	0.2	0.0174	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
E-14506	ALKALINITY	546	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	546	10.0		mg CaCO3/L	2.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	913	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501	
E-10128	TOTAL NITRATE/NITRITE	ND	0.01	0.0011	mg/L	1.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429	
E-10117	CHEMICAL OXYGEN DEMAND	14	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	3.36	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	122.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.28	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	103.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	10.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	47.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-39-3	BARIUM	0.123	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.177	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.012	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-07 - Coupeville Landfill								Sample Date: 4/27/15 3:10 pm				
Lab Number: 18414				Sample Comment:				Collected By: Matt O'Hare/Sam Grar				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	4.4	0.1	0.0211	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
16984-48-8	FLUORIDE	0.12	0.1	0.0054	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
14808-79-8	SULFATE	14.8	0.2	0.0174	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
E-14506	ALKALINITY	214	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	214	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	286	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501	
E-10128	TOTAL NITRATE/NITRITE	3.95	0.01	0.0011	mg/L	1.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.83	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	31.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	31.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	3.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	13.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.015	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	0.002	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

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 D.F. - Dilution Factor

Data Report

7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512

Sample Description: 0415-09 - Coupeville Landfill	Sample Date: 4/27/15 4:26 pm
Lab Number: 18415 Sample Comment:	Collected By: Matt O'Hare/Sam Grar

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	58.9	0.1	0.0211	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
14808-79-8	SULFATE	93.7	0.2	0.0174	mg/L	1.0	300.0	a	5/6/15	BJ	I150505A	
E-14506	ALKALINITY	428	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
NA	BICARBONATE	428	5.00		mg CaCO3/L	1.0	310.2	a	5/4/15	SPS	310.2_150504	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	4/30/15	SPS	350.1_150430	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	846	10		mg/L	1.0	SM2540 C	a	5/1/15	MMH	TDS_150501	
E-10128	TOTAL NITRATE/NITRITE	46.7	0.20	0.0011	mg/L	20.0	SM4500-NO3 F	a	4/29/15	SPS	NO3NO2-150429	
E-10117	CHEMICAL OXYGEN DEMAND	9	8.0	5	mg/L	1.0	SM5220 D	a	5/1/15	MMH	COD_150501	
E-10195	TOTAL ORGANIC CARBON	1.47	0.50	0.05	mg/L	1.0	SM5310 B	a	5/2/15	BJ	TOC_150501	
7440-70-2	CALCIUM	126.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-89-6	IRON	0.01	0.050	0.0012	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7439-95-4	MAGNESIUM	79.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-09-7	POTASSIUM	6.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-23-5	SODIUM	28.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	5/8/15	BJ	6010B-150508A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-39-3	BARIUM	0.040	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-43-9	CADMIUM	ND	0.0002	4.93E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-50-8	COPPER	0.0013	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7439-96-5	MANGANESE	0.072	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-02-0	NICKEL	0.009	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	5/12/15	MVP	6020_150512	

Notes:

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D.F. - Dilution Factor

Data Report

7440-66-6 **ZINC**

ND

0.0025 4.25E-05 mg/L 1.0 6020A/3010A a 5/12/15 MVP 6020_150512

Notes: _____

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18415
Field ID: 0415-09
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.5		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	5.9		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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D.F. - Dilution Factor.



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18415
Field ID: 0415-09
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.058		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18414
Field ID: 0415-07
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	0	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18414
Field ID: 0415-07
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18413
Field ID: 0415-06
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18413
Field ID: 0415-06
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18412
Field ID: 0415-05
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.6		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	0.5		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	6.0		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18412
Field ID: 0415-05
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18411
Field ID: 0415-04
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18411
Field ID: 0415-04
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18410
Field ID: 0415-03
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.6		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	0.5		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	5.9		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18410
Field ID: 0415-03
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18409
Field ID: 0415-02
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18409
Field ID: 0415-02
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18408
Field ID: 0415-01
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/5/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/5/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150505
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.05	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.19	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.10	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.29	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.23	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.14	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.28	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.19	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3.0	3.0	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4.0	4.0	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.22	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.2	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.17	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.27	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.28	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.07	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.08	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.32	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.15	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.38	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.22	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.2	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.2	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.3	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.08	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.19	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.6		ug/L	0.4	0.4	0.32	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2.0	2.0	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.26	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-08034**
Project: Coupeville Landfill

Lab Number: 18408
Field ID: 0415-01
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 4/27/15
Extraction Date: 5/1/15
Extraction Method: 5030B

Report Date: 5/18/15
Date Analyzed: 5/1/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150501
Approved By: hy,rjk

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.062		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 D.F. - Dilution Factor.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150430	0 AMMONIA-N	2.59	2.50	mg/L	350.1	104	90-110	CAL	
6010B-150508A	2 CALCIUM	10.4	11	mg/L	6010B	95	90-110	CAL	
	2 IRON	1.04	1	mg/L	6010B	104	90-110	CAL	
	2 MAGNESIUM	11.1	11	mg/L	6010B	101	90-110	CAL	
	2 POTASSIUM	10.2	10	mg/L	6010B	102	90-110	CAL	
	2 SODIUM	11.2	11	mg/L	6010B	102	90-110	CAL	
6020_150512	0 ANTIMONY	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 ARSENIC	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 BARIUM	0.00104	0.001	mg/L	6020A	104	80-120	CAL	
	0 BERYLLIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CADMIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CHROMIUM	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 COBALT	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 LEAD	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 MANGANESE	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 NICKEL	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 SELENIUM	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 SILVER	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 THALLIUM	0.00093	0.001	mg/L	6020A	93	80-120	CAL	
	0 VANADIUM	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 ZINC	0.00103	0.001	mg/L	6020A	103	80-120	CAL	
I150504A	0 CHLORIDE	1.04	1.00	mg/L	300.0	104	90-110	CAL	
	0 FLUORIDE	0.97	1.00	mg/L	300.0	97	90-110	CAL	
	0 SULFATE	2.02	2.00	mg/L	300.0	101	90-110	CAL	
I150505A	0 CHLORIDE	1.05	1	mg/L	300.0	105	90-110	CAL	
	0 FLUORIDE	0.98	1	mg/L	300.0	98	90-110	CAL	
	0 SULFATE	2	2	mg/L	300.0	100	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
NO3NO2-150429	0 TOTAL NITRATE/NITRITE	2.56	2.50	mg/L	SM4500-NO3 F	102	90-110	CAL	
TOC_150501	0 TOTAL ORGANIC CARBON	2.53	2.50	mg/L	SM5310 B	101	90-110	CAL	
	1 TOTAL ORGANIC CARBON	103.5	100	mg/L	SM5310 B	104	90-110	CAL	
	2 TOTAL ORGANIC CARBON	4.98	5.00	mg/L	SM5310 B	100	90-110	CAL	
	3 TOTAL ORGANIC CARBON	0.51	0.50	mg/L	SM5310 B	102	90-110	CAL	
	4 TOTAL ORGANIC CARBON	0.196	0.15	mg/L	SM5310 B	131	90-110	CAL	MRL +/-50%

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
6010B-150508A	0 CALCIUM	24.6	26	mg/L	6010B	95	85-115		LFB	
	0 IRON	0.99	1	mg/L	6010B	99	85-115		LFB	
	0 MAGNESIUM	25.7	26	mg/L	6010B	99	85-115		LFB	
	0 POTASSIUM	35.1	35	mg/L	6010B	100	85-115		LFB	
	0 SODIUM	26.1	26	mg/L	6010B	100	85-115		LFB	
6020_150512	0 ANTIMONY	0.038	0.040	mg/L	6020A	95	80-120		LFB	
	0 ARSENIC	0.037	0.040	mg/L	6020A	93	80-120		LFB	
	0 BARIUM	0.043	0.040	mg/L	6020A	108	80-120		LFB	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	80-120		LFB	
	0 CADMIUM	0.039	0.040	mg/L	6020A	98	80-120		LFB	
	0 CHROMIUM	0.035	0.040	mg/L	6020A	88	80-120		LFB	
	0 COBALT	0.035	0.040	mg/L	6020A	88	80-120		LFB	
	0 COPPER	0.040	0.040	mg/L	6020A	100	80-120		LFB	
	0 LEAD	0.037	0.040	mg/L	6020A	93	80-120		LFB	
	0 MANGANESE	0.036	0.040	mg/L	6020A	90	80-120		LFB	
	0 NICKEL	0.035	0.040	mg/L	6020A	88	80-120		LFB	
	0 SELENIUM	0.036	0.040	mg/L	6020A	90	80-120		LFB	
	0 SILVER	0.020	0.020	mg/L	6020A	100	80-120		LFB	
	0 THALLIUM	0.037	0.040	mg/L	6020A	93	80-120		LFB	
	0 VANADIUM	0.035	0.040	mg/L	6020A	88	80-120		LFB	
0 ZINC	0.037	0.040	mg/L	6020A	93	80-120		LFB		
8260W_150505	0 1,1 - DICHLOROETHANE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 1,1 - DICHLOROETHYLENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 1,1,2 - TRICHLOROETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	5	4	ug/L	8260B	125	80-120	HR	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 1,2 - DICHLOROETHANE	4.7	4	ug/L	8260B	118	80-120		LFB	
	0 1,2 - DICHLOROPROPANE	4	4	ug/L	8260B	100	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier	QC Type	Comment
8260W_150505	0 1,2,3 - TRICHLOROPROPANE	5.2	4	ug/L	8260B	130	80-120	HR	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	6.1	4	ug/L	8260B	153	80-120	HR	LFB	
	0 1,4 - DICHLOROENZENE (para)	4.7	4	ug/L	8260B	118	80-120		LFB	
	0 2-BUTANONE (MEK)	8.4	10	ug/L	8260B	84	80-120		LFB	
	0 2-HEXANONE	9.4	10	ug/L	8260B	94	80-120		LFB	
	0 4-METHYL-2-PENTANONE	10.3	10	ug/L	8260B	103	80-120		LFB	
	0 ACETONE	7.5	10	ug/L	8260B	75	80-120	LR	LFB	
	0 BENZENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 BROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 BROMODICHLOROMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 BROMOFORM	4.4	4	ug/L	8260B	110	80-120		LFB	
	0 BROMOMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CARBON DISULFIDE	10.2	10	ug/L	8260B	102	80-120		LFB	
	0 CARBON TETRACHLORIDE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 CHLOROENZENE	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 CHLOROETHANE	2.5	4	ug/L	8260B	63	80-120	LR	LFB	
	0 CHLOROFORM	4.4	4	ug/L	8260B	110	80-120		LFB	
	0 CHLOROMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CIS - 1,2 - DICHLOROETHENE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 DIBROMOCHLOROMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 DIBROMOMETHANE	4	4	ug/L	8260B	100	80-120		LFB	
	0 ETHYLBENZENE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 M,P- XYLENE	8.3	8	ug/L	8260B	104	80-120		LFB	
	0 METHYL IODIDE	12.2	10	ug/L	8260B	122	80-120	HR	LFB	
	0 METHYLENE CHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 O - XYLENE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 STYRENE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 TETRACHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 TOLUENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.6	4	ug/L	8260B	90	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	QC	Comment
			Value	Units					Qualifier	Type	
8260W_150505	0 TRANS - 1,4 - DICHLORO-2-BUTENE	12.5	10	ug/L	8260B	125	80-120	HR	LFB		
	0 TRICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120		LFB		
	0 TRICHLOROFLUOROMETHANE	4.6	4	ug/L	8260B	115	80-120		LFB		
	0 VINYL ACETATE	25.8	25	ug/L	8260B	103	80-120		LFB		
	0 VINYL CHLORIDE	4.5	4	ug/L	8260B	113	80-120		LFB		
COD_150501	0 CHEMICAL OXYGEN DEMAND	54	50	mg/L	SM5220 D	108	90-110		LFB		
SIM_150501	0 1,2 - DIBROMOETHANE (EDB SIM)	0.67	0.7	ug/L	8260SIM	96	70-130		LFB	SIMS ANALYSIS	
	0 ACRYLONITRILE (SIM)	0.71	0.7	ug/L	8260SIM	101	70-130		LFB	SIMS ANALYSIS	
	0 VINYL CHLORIDE (SIM)	0.63	0.7	ug/L	8260SIM	90	70-130		LFB	SIMS ANALYSIS	
TOC_150501	0 TOTAL ORGANIC CARBON	1.04	1.00	mg/L	SM5310 B	104	90-110		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150504	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_150430	0 AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B-150508A	0 CALCIUM	ND		mg/L	6010B		0-0		LRB	
	0 IRON	ND		mg/L	6010B		0-0		LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	0 SODIUM	ND		mg/L	6010B		0-0		LRB	
6020_150512	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0		LRB	
	0 BARIUM	ND		mg/L	6020A		0-0		LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0		LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	0 COBALT	ND		mg/L	6020A		0-0		LRB	
	0 COPPER	ND		mg/L	6020A		0-0		LRB	
	0 LEAD	ND		mg/L	6020A		0-0		LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0		LRB	
	0 NICKEL	ND		mg/L	6020A		0-0		LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0		LRB	
	0 SILVER	ND		mg/L	6020A		0-0		LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0		LRB	
0 VANADIUM	ND		mg/L	6020A		0-0		LRB		
0 ZINC	ND		mg/L	6020A		0-0		LRB		
I150504A	0 CHLORIDE	ND		mg/L	300.0		0-0		LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0		LRB	
	0 SULFATE	ND		mg/L	300.0		0-0		LRB	
I150505A	0 CHLORIDE	ND		mg/L	300.0		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
I150505A	0 FLUORIDE	ND		mg/L	300.0		0-0		LRB	
	0 SULFATE	ND		mg/L	300.0		0-0		LRB	
NO3NO2-150429	0 TOTAL NITRATE/NITRITE	ND		mg/L	SM4500-NO3 F		0-0		LRB	
TOC_150501	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150504	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150430	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B-150508A	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150512	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	0.001		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8260W_150505	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-08133
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	TB 15-08133
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-08133
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-08133
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-08133

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 1,2 - DICHLOROENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-08133

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-08133
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,2 - DICHLOROETHANE (ortho)	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 1,4 - DICHLOROETHANE (para)	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150505	1 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 STYRENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
	1 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 14-08135
1 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 14-08135	
1 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 14-08135	
1 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 14-08135	
COD_150501	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D	0-3		MB	
NO3NO2-150429	0 TOTAL NITRATE/NITRITE	ND		mg/L	SM4500-NO3 F	0-0		MB	
SIM_150501	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-08034
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-08034
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-08034

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
tds_150501	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
	1 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TOC_150501	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150504	0 ALKALINITY	99.4	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150430	0 AMMONIA-N	2.58	2.60	mg/L	350.1	99	85-115	QCS	
6010B-150508A	0 IRON	2.02	2	mg/L	6010B	101	90-110	QCS	
	1 CALCIUM	19.1	20	mg/L	6010B	96	90-110	QCS	
	1 MAGNESIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
	1 POTASSIUM	20.8	20	mg/L	6010B	104	90-110	QCS	
	1 SODIUM	20.9	20	mg/L	6010B	105	90-110	QCS	
6020_150512	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BARIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 LEAD	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 SILVER	0.020	0.020	mg/L	6020A	100	90-110	QCS	
	0 THALLIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 VANADIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 ZINC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
COD_150501	0 CHEMICAL OXYGEN DEMAND	145	137	mg/L	SM5220 D	106	90-110	QCS	
I150504A	0 CHLORIDE	5.99	6.00	mg/L	300.0	100	90-110	QCS	
	0 FLUORIDE	3.97	4.00	mg/L	300.0	99	90-110	QCS	
	0 SULFATE	30	30	mg/L	300.0	100	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-08034**

Report Date: 05/18/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
I150505A	0 CHLORIDE	6.05	6	mg/L	300.0	101	90-110	QCS	
	0 FLUORIDE	3.94	4	mg/L	300.0	99	90-110	QCS	
	0 SULFATE	30.2	30	mg/L	300.0	101	90-110	QCS	
NO3NO2-150429	0 TOTAL NITRATE/NITRITE	1.09	1.00	mg/L	SM4500-NO3 F	109	90-110	QCS	
tds_150501	0 TOTAL DISSOLVED SOLIDS (TDS)	496	500	mg/L	SM2540 C	99	80-120	QCS	
	1 TOTAL DISSOLVED SOLIDS (TDS)	496	500	mg/L	SM2540 C	99	80-120	QCS	
TOC_150501	0 TOTAL ORGANIC CARBON	5.17	5.20	mg/L	SM5310 B	99	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC	
				Result					Qualifier	Type
Duplicate										
310.2_150504										
	18362	ALKALINITY	337	337		mg CaCO3/l	0.0	0-20		DUP
	18364	ALKALINITY	366	367		mg CaCO3/l	0.3	0-20		DUP
	18619	ALKALINITY	387	391		mg CaCO3/l	1.0	0-20		DUP
	18619	BICARBONATE	387	391		mg CaCO3/l	1.0	0-20		DUP
	18629	ALKALINITY	246	249		mg CaCO3/l	1.2	0-20		DUP
	18638	ALKALINITY	317	316		mg CaCO3/l	0.3	0-20		DUP
	18638	BICARBONATE	317	316		mg CaCO3/l	0.3	0-20		DUP
350.1_150430										
	18365	AMMONIA-N	7.15	7.19		mg/L	0.6	0-20		DUP
	18618	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	18628	AMMONIA-N	0.03	0.03		mg/L	0.0	0-20		DUP
	18638	AMMONIA-N	0.26	0.27		mg/L	3.8	0-20		DUP
	18640	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
6010B-150508A										
	18408	IRON	0.01	0.006 J		mg/L	50.0	0-20	IEV	DUP
	18408	CALCIUM	106.6	106.7		mg/L	0.1	0-20		DUP
	18408	MAGNESIUM	72.8	72.8		mg/L	0.0	0-20		DUP
	18408	POTASSIUM	8.5	8.4		mg/L	1.2	0-20		DUP
	18408	SODIUM	40.1	40.1		mg/L	0.0	0-20		DUP
	18620	IRON	0.47	0.53		mg/L	12.0	0-20		DUP
	18620	CALCIUM	63.6	65.4		mg/L	2.8	0-20		DUP
	18620	MAGNESIUM	24.6	25.2		mg/L	2.4	0-20		DUP
	18620	POTASSIUM	5.9	6.0		mg/L	1.7	0-20		DUP
	18620	SODIUM	20.2	20.6		mg/L	2.0	0-20		DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	18630	IRON	0.13	0.14	mg/L	7.4	0-20		DUP	
	18630	CALCIUM	52.0	53.5	mg/L	2.8	0-20		DUP	
	18630	MAGNESIUM	67.7	69.7	mg/L	2.9	0-20		DUP	
	18630	POTASSIUM	9.8	9.9	mg/L	1.0	0-20		DUP	
	18630	SODIUM	42.1	42.9	mg/L	1.9	0-20		DUP	
	18640	IRON	0.03	0.03	mg/L	0.0	0-20		DUP	
	18640	CALCIUM	72.1	70.7	mg/L	2.0	0-20		DUP	
	18640	MAGNESIUM	42.9	42.0	mg/L	2.1	0-20		DUP	
	18640	POTASSIUM	5.2	5.2	mg/L	0.0	0-20		DUP	
	18640	SODIUM	30.1	29.5	mg/L	2.0	0-20		DUP	
6020_150512										
	18408	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	18408	ARSENIC	0.003	0.003	mg/L	0.0	0-20		DUP	
	18408	BARIUM	0.033	0.032	mg/L	3.1	0-20		DUP	
	18408	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	18408	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	18408	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	18408	MANGANESE	0.016	0.016	mg/L	0.0	0-20		DUP	
	18408	NICKEL	0.007	0.007	mg/L	0.0	0-20		DUP	
	18408	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	18408	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18408	VANADIUM	0.003	0.003	mg/L	0.0	0-20		DUP	
	18408	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	18620	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	18620	ARSENIC	0.009	0.0095	mg/L	5.4	0-20		DUP	
	18620	BARIUM	0.037	0.038	mg/L	2.7	0-20		DUP	
	18620	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	COBALT	ND	ND	mg/L	NA	0-20		DUP	

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Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	18620	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	18620	LEAD	0.0006	0.0007	mg/L	15.4	0-20		DUP	
	18620	MANGANESE	0.154	0.228	mg/L	38.7	0-20	INH	DUP	
	18620	NICKEL	0.003	0.003	mg/L	0.0	0-20		DUP	
	18620	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	18620	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	18620	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	18630	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	18630	ARSENIC	0.0075	0.0077	mg/L	2.6	0-20		DUP	
	18630	BARIUM	0.070	0.071	mg/L	1.4	0-20		DUP	
	18630	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18630	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18630	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18630	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	18630	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	18630	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	18630	MANGANESE	0.142	0.144	mg/L	1.4	0-20		DUP	
	18630	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	18630	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	18630	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	18630	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18630	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	18630	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	18640	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	18640	ARSENIC	0.003	0.003	mg/L	0.0	0-20		DUP	
	18640	BARIUM	0.024	0.023	mg/L	4.3	0-20		DUP	
	18640	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	18640	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	18640	CHROMIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	18640	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	18640	COPPER	0.065	0.063	mg/L	3.1	0-20		DUP	
	18640	LEAD	0.0007	0.0007	mg/L	0.0	0-20		DUP	

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Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	18640	MANGANESE	0.001	0.001		mg/L	0.0	0-20		DUP	
	18640	NICKEL	0.002	0.002		mg/L	0.0	0-20		DUP	
	18640	SELENIUM	0.001	0.001		mg/L	0.0	0-20		DUP	
	18640	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	18640	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	18640	VANADIUM	0.002	0.002		mg/L	0.0	0-20		DUP	
	18640	ZINC	0.134	0.129		mg/L	3.8	0-20		DUP	
COD_150501											
	17309	CHEMICAL OXYGEN DEMAND	4075	4050		mg/L	0.6	0-20		DUP	
	18435	CHEMICAL OXYGEN DEMAND	126	136		mg/L	7.6	0-20		DUP	
	18626	CHEMICAL OXYGEN DEMAND	14	14		mg/L	0.0	0-20		DUP	
I150504A											
	18368	CHLORIDE	102	103		mg/L	1.0	0-20		DUP	
	18916	FLUORIDE	0.38	0.39		mg/L	2.6	0-20		DUP	
	18916	SULFATE	59	59		mg/L	0.0	0-20		DUP	
	19152	CHLORIDE	39	39		mg/L	0.0	0-20		DUP	
	19152	FLUORIDE	0.1	0.1		mg/L	0.0	0-20		DUP	
I150505A											
	18412	CHLORIDE	7.3	7.3		mg/L	0.0	0-20		DUP	
	18412	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	18412	SULFATE	167	167		mg/L	0.0	0-20		DUP	
	19541	CHLORIDE	33.1	33.1		mg/L	0.0	0-20		DUP	
NO3NO2-150429											
	16819	TOTAL NITRATE/NITRITE	0.045	0.045		mg/L	0.0	0-20		DUP	
	16902	TOTAL NITRATE/NITRITE	0.02	0.02		mg/L	0.0	0-20		DUP	
	17810	TOTAL NITRATE/NITRITE	0.47	0.46		mg/L	2.2	0-20		DUP	
	17820	TOTAL NITRATE/NITRITE	1.40	1.39		mg/L	0.7	0-20		DUP	
	18364	TOTAL NITRATE/NITRITE	0.31	0.31		mg/L	0.0	0-20		DUP	
	18367	TOTAL NITRATE/NITRITE	3.90	3.92		mg/L	0.5	0-20		DUP	
	18468	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
tds_150501											
	18415	TOTAL DISSOLVED SOLIDS (TDS)	846	862		mg/L	1.9	0-10		DUP	
TOC_150501											
	16632	TOTAL ORGANIC CARBON	0.91	0.92		mg/L	1.1	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	17490	TOTAL ORGANIC CARBON	1.14	1.12		mg/L	1.8	0-20		DUP	
	18412	TOTAL ORGANIC CARBON	6.01	5.98		mg/L	0.5	0-20		DUP	

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Only Duplicate sample with detections are listed in this report

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150504															
	18362	ALKALINITY	337	562	563	250	mg CaCO3/90	90		70-130	0.4	0-20			LFM
	18364	ALKALINITY	366	453	455	250	mg CaCO3/35	36		70-130	2.3	0-20	IM		LFM
	18619	ALKALINITY	387	541	558	250	mg CaCO3/62	68		70-130	10.5	0-20	IM		LFM
	18619	BICARBONATE	387	541	558	250	mg CaCO3/62	68		70-130	10.5	0-20	IM		LFM
	18629	ALKALINITY	246	461	456	250	mg CaCO3/86	84		70-130	2.4	0-20			LFM
	18629	BICARBONATE	246	461	456	250	mg CaCO3/86	84		70-130	2.4	0-20			LFM
	18638	ALKALINITY	317	545	545	250	mg CaCO3/91	91		70-130	0.0	0-20			LFM
	18638	BICARBONATE	317	545	545	250	mg CaCO3/91	91		70-130	0.0	0-20			LFM
350.1_150430															
	18365	AMMONIA-N	7.15	8.01	8.31	1.00	mg/L	86	116	70-130	29.7	0-20	IM		LFM
	18618	AMMONIA-N	ND	1.06	1.06	1.00	mg/L	106	106	70-130	0.0	0-20			LFM
	18628	AMMONIA-N	0.03	1.10	1.07	1.00	mg/L	107	104	70-130	2.8	0-20			LFM
	18638	AMMONIA-N	0.26	1.35	1.33	1.00	mg/L	109	107	70-130	1.9	0-20			LFM
	18640	AMMONIA-N	ND	1.09	1.07	1.00	mg/L	109	107	70-130	1.9	0-20			LFM
6010B-150508A															
	18408	IRON	0.01	1.00		1.00	mg/L	99		75-125	NA	0-20			LFM
	18408	CALCIUM	106.6	127.7		26.0	mg/L	81		75-125	NA	0-20			LFM
	18408	MAGNESIUM	72.8	95.8		26.0	mg/L	88		75-125	NA	0-20			LFM
	18408	POTASSIUM	8.5	43.4		35.0	mg/L	100		75-125	NA	0-20			LFM
	18620	IRON	0.47	1.58		1.00	mg/L	111		75-125	NA	0-20			LFM
	18620	CALCIUM	63.6	88.4		26.0	mg/L	95		75-125	NA	0-20			LFM
	18620	MAGNESIUM	24.6	49.5		26.0	mg/L	96		75-125	NA	0-20			LFM
	18620	POTASSIUM	5.9	40.3		35.0	mg/L	98		75-125	NA	0-20			LFM
	18630	IRON	0.13	1.14		1.00	mg/L	101		75-125	NA	0-20			LFM
	18630	CALCIUM	52.0	76.7		26.0	mg/L	95		75-125	NA	0-20			LFM
	18630	MAGNESIUM	67.7	93.1		26.0	mg/L	98		75-125	NA	0-20			LFM
	18630	POTASSIUM	9.8	44.5		35.0	mg/L	99		75-125	NA	0-20			LFM
	18640	IRON	0.03	0.08		0.05	mg/L	100		75-125	NA	0-20			LFM
	18640	CALCIUM	72.1	95.6		26.0	mg/L	90		75-125	NA	0-20			LFM
	18640	MAGNESIUM	42.9	66.8		26.0	mg/L	92		75-125	NA	0-20			LFM
	18640	POTASSIUM	5.2	39.1		35.0	mg/L	97		75-125	NA	0-20			LFM
6020_150512															

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	18408	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20			LFM	
	18408	ARSENIC	0.003	0.055		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18408	BARIUM	0.033	0.084		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	BERYLLIUM	ND	0.052		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18408	CADMIUM	ND	0.053		0.050	mg/L	106		75-125	NA	0-20			LFM	
	18408	CHROMIUM	ND	0.048		0.050	mg/L	96		75-125	NA	0-20			LFM	
	18408	COBALT	ND	0.047		0.050	mg/L	94		75-125	NA	0-20			LFM	
	18408	COPPER	0.001	0.052		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	LEAD	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	MANGANESE	0.016	0.063		0.050	mg/L	94		75-125	NA	0-20			LFM	
	18408	NICKEL	0.007	0.051		0.050	mg/L	88		75-125	NA	0-20			LFM	
	18408	SELENIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18408	SILVER	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM	
	18408	THALLIUM	ND	0.052		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18408	VANADIUM	0.003	0.051		0.050	mg/L	96		75-125	NA	0-20			LFM	
	18408	ZINC	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18620	ANTIMONY	ND	0.057		0.050	mg/L	114		75-125	NA	0-20			LFM	
	18620	ARSENIC	0.009	0.063		0.050	mg/L	108		75-125	NA	0-20			LFM	
	18620	BARIUM	0.037	0.092		0.050	mg/L	110		75-125	NA	0-20			LFM	
	18620	BERYLLIUM	ND	0.054		0.050	mg/L	108		75-125	NA	0-20			LFM	
	18620	CADMIUM	ND	0.054		0.050	mg/L	108		75-125	NA	0-20			LFM	
	18620	CHROMIUM	ND	0.049		0.050	mg/L	98		75-125	NA	0-20			LFM	
	18620	COBALT	ND	0.049		0.050	mg/L	98		75-125	NA	0-20			LFM	
	18620	COPPER	ND	0.053		0.050	mg/L	106		75-125	NA	0-20			LFM	
	18620	LEAD	0.0006	0.052		0.050	mg/L	103		75-125	NA	0-20			LFM	
	18620	MANGANESE	0.154	0.307		0.050	mg/L	306		75-125	NA	0-20	INH		LFM	
	18620	NICKEL	0.003	0.050		0.050	mg/L	94		75-125	NA	0-20			LFM	
	18620	SELENIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20			LFM	
	18620	SILVER	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM	
	18620	THALLIUM	ND	0.052		0.050	mg/L	104		75-125	NA	0-20			LFM	
	18620	VANADIUM	ND	0.050		0.050	mg/L	100		75-125	NA	0-20			LFM	
	18620	ZINC	ND	0.053		0.050	mg/L	106		75-125	NA	0-20			LFM	
	18630	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20			LFM	
	18630	ARSENIC	0.007	0.060		0.050	mg/L	106		75-125	NA	0-20			LFM	

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NA = Indicates %RPD could not be calculated

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	18630	BARIUM	0.070	0.128		0.050	mg/L	116			75-125	NA	0-20		LFM	
	18630	BERYLLIUM	ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18630	CADMIUM	ND	0.053		0.050	mg/L	106			75-125	NA	0-20		LFM	
	18630	CHROMIUM	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	18630	COBALT	ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	18630	COPPER	ND	0.053		0.050	mg/L	106			75-125	NA	0-20		LFM	
	18630	LEAD	ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18630	MANGANESE	0.142	0.201		0.050	mg/L	118			75-125	NA	0-20		LFM	
	18630	NICKEL	0.001	0.048		0.050	mg/L	94			75-125	NA	0-20		LFM	
	18630	SELENIUM	ND	0.050		0.050	mg/L	100			75-125	NA	0-20		LFM	
	18630	SILVER	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	18630	THALLIUM	ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18630	VANADIUM	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	18630	ZINC	ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18640	ANTIMONY	ND	0.056		0.050	mg/L	112			75-125	NA	0-20		LFM	
	18640	ARSENIC	0.003	0.055		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18640	BARIUM	0.024	0.076		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18640	BERYLLIUM	ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18640	CADMIUM	ND	0.053		0.050	mg/L	106			75-125	NA	0-20		LFM	
	18640	CHROMIUM	0.001	0.048		0.050	mg/L	94			75-125	NA	0-20		LFM	
	18640	COBALT	ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	18640	COPPER	0.065	0.116		0.050	mg/L	102			75-125	NA	0-20		LFM	
	18640	LEAD	0.0007	0.052		0.050	mg/L	103			75-125	NA	0-20		LFM	
	18640	MANGANESE	0.001	0.049		0.050	mg/L	96			75-125	NA	0-20		LFM	
	18640	NICKEL	0.002	0.049		0.050	mg/L	94			75-125	NA	0-20		LFM	
	18640	SELENIUM	0.001	0.052		0.050	mg/L	102			75-125	NA	0-20		LFM	
	18640	SILVER	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	18640	THALLIUM	ND	0.052		0.050	mg/L	104			75-125	NA	0-20		LFM	
	18640	VANADIUM	0.002	0.051		0.050	mg/L	98			75-125	NA	0-20		LFM	
	18640	ZINC	0.134	0.194		0.050	mg/L	120			75-125	NA	0-20		LFM	
8260W_150505																
	18614	1,1 - DICHLOROETHANE	2.3	5.8	6.3	4	ug/L	88	100	70-130	13.3	0-20		LFM		
	18614	1,1 - DICHLOROETHYLENE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM		
	18614	1,1,1 - TRICHLOROETHANE	0.8	4.6	4.8	4	ug/L	95	100	70-130	5.1	0-20		LFM		

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	18614	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	4.3	4	ug/L	103	108	70-130	4.8	0-20		LFM	
	18614	1,1,2 - TRICHLOROETHANE	ND	3.5	3.5	4	ug/L	88	88	70-130	0.0	0-20		LFM	
	18614	1,1,2,2 - TETRACHLOROETHANE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20		LFM	
	18614	1,2 - DICHLOROBENZENE (ortho)	ND	4	4.2	4	ug/L	100	105	70-130	4.9	0-20		LFM	
	18614	1,2 - DICHLOROETHANE	ND	4.3	4.3	4	ug/L	108	108	70-130	0.0	0-20		LFM	
	18614	1,2 - DICHLOROPROPANE	ND	3.6	3.8	4	ug/L	90	95	70-130	5.4	0-20		LFM	
	18614	1,2,3 - TRICHLOROPROPANE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2	0-20		LFM	
	18614	1,2-DIBROMO-3-CHLOROPROPANE	ND	4.8	4.6	4	ug/L	120	115	70-130	4.3	0-20		LFM	
	18614	1,4 - DICHLOROBENZENE (para)	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20		LFM	
	18614	BENZENE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7	0-20		LFM	
	18614	BROMOCHLOROMETHANE	ND	3.3	3.6	4	ug/L	83	90	70-130	8.7	0-20		LFM	
	18614	BROMODICHLOROMETHANE	ND	3.7	3.9	4	ug/L	93	98	70-130	5.3	0-20		LFM	
	18614	BROMOFORM	ND	3.9	4.2	4	ug/L	98	105	70-130	7.4	0-20		LFM	
	18614	BROMOMETHANE	ND	2.1	2.7	4	ug/L	53	68	70-130	25.0	0-20	LR	LFM	
	18614	CARBON TETRACHLORIDE	ND	3.8	4.2	4	ug/L	95	105	70-130	10.0	0-20		LFM	
	18614	CHLOROBENZENE	ND	3.9	4.3	4	ug/L	98	108	70-130	9.8	0-20		LFM	
	18614	CHLOROETHANE	ND	2.8	3	4	ug/L	70	75	70-130	6.9	0-20		LFM	
	18614	CHLOROFORM	ND	4	4.2	4	ug/L	100	105	70-130	4.9	0-20		LFM	
	18614	CHLOROMETHANE	ND	3.4	3.8	4	ug/L	85	95	70-130	11.1	0-20		LFM	
	18614	CIS - 1,2 - DICHLOROETHENE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1	0-20		LFM	
	18614	CIS - 1,3 - DICHLOROPROPENE	ND	2.9	3.1	4	ug/L	73	78	70-130	6.7	0-20		LFM	
	18614	DIBROMOCHLOROMETHANE	ND	3.3	3.4	4	ug/L	83	85	70-130	3.0	0-20		LFM	
	18614	DIBROMOMETHANE	ND	3.5	3.9	4	ug/L	88	98	70-130	10.8	0-20		LFM	
	18614	ETHYLBENZENE	ND	3.7	4	4	ug/L	93	100	70-130	7.8	0-20		LFM	
	18614	M,P-XYLENE	ND	7.4	8	8	ug/L	93	100	70-130	7.8	0-20		LFM	
	18614	METHYLENE CHLORIDE	0.8	4.3	4.5	4	ug/L	88	93	70-130	5.6	0-20		LFM	
	18614	O - XYLENE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0	0-20		LFM	
	18614	STYRENE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0	0-20		LFM	
	18614	TETRACHLOROETHYLENE	ND	3.2	3.4	4	ug/L	80	85	70-130	6.1	0-20		LFM	
	18614	TOLUENE	ND	3.1	3.5	4	ug/L	78	88	70-130	12.1	0-20		LFM	
	18614	TRANS - 1,2 - DICHLOROETHENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM	
	18614	TRANS - 1,3 - DICHLOROPROPENE	ND	2.8	2.9	4	ug/L	70	73	70-130	3.5	0-20		LFM	
	18614	TRICHLOROETHENE	ND	3.4	3.6	4	ug/L	85	90	70-130	5.7	0-20		LFM	
	18614	TRICHLOROFLUOROMETHANE	63.6	55	57.5	4	ug/L	-215	-153	70-130	34.0	0-20	S	LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments	
				Spike Result	Spike Result			MS	MSD				Qualifier	Type		
	18614	VINYL CHLORIDE	7.8	10.8	12.5	4	ug/L	75	118	70-130	44.2	0-20			LFM	
COD_150501																
	17309	CHEMICAL OXYGEN DEMAND	4075	5025	5175	1250	mg/L	76	88	70-130	14.6	0-20	IM		LFM	
	18435	CHEMICAL OXYGEN DEMAND	126	176	176	50	mg/L	100	100	70-130	0.0	0-20			LFM	
	18626	CHEMICAL OXYGEN DEMAND	14	62	59	50	mg/L	96	90	70-130	6.5	0-20			LFM	
I150504A																
	18368	CHLORIDE	102	120		20	mg/L	90	NA	90-110	NA	0-20			LFM	
	18916	FLUORIDE	0.38	1.37		1.00	mg/L	99	NA	90-110	NA	0-20			LFM	
	19152	FLUORIDE	0.1	1.06		1.00	mg/L	96	NA	90-110	NA	0-20			LFM	
I150505A																
	18412	CHLORIDE	7.3	8.1		1	mg/L	80	NA	90-110	NA	0-20	IS		LFM	
	18412	FLUORIDE	ND	1.01		1	mg/L	101	NA	90-110	NA	0-20			LFM	
	18412	SULFATE	167	165		2	mg/L	-100	NA	90-110	NA	0-20	IS		LFM	
	19541	CHLORIDE	33.1	33.4		1	mg/L	30	NA	90-110	NA	0-20	IS		LFM	
NO3NO2-150429																
	16819	TOTAL NITRATE/NITRITE	0.045	1.14	1.14	1.00	mg/L	110	110	80-120	0.0	0-20			LFM	
	16902	TOTAL NITRATE/NITRITE	0.02	1.15	1.14	1.00	mg/L	113	112	80-120	0.9	0-20			LFM	
	17810	TOTAL NITRATE/NITRITE	0.47	1.58	1.59	1.00	mg/L	111	112	80-120	0.9	0-20			LFM	
	17820	TOTAL NITRATE/NITRITE	1.40	2.50	2.47	1.00	mg/L	110	107	80-120	2.8	0-20			LFM	
	18364	TOTAL NITRATE/NITRITE	0.31	1.34	1.32	1.00	mg/L	103	101	80-120	2.0	0-20			LFM	
	18367	TOTAL NITRATE/NITRITE	3.90	4.91	4.93	1.00	mg/L	101	103	80-120	2.0	0-20			LFM	
	18468	TOTAL NITRATE/NITRITE	ND	0.66	0.67	1.00	mg/L	66	67	80-120	1.5	0-20	IM		LFM	
SIM_150501																
	18409	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.200		0.2	ug/L	100		70-130	NA	0-20			LFM	
	18409	ACRYLONITRILE (SIM)	ND	0.215		0.2	ug/L	108		70-130	NA	0-20			LFM	
	18409	VINYL CHLORIDE (SIM)	ND	0.168		0.2	ug/L	84		70-130	NA	0-20			LFM	
TOC_150501																
	16632	TOTAL ORGANIC CARBON	0.91	4.80		4.00	mg/L	97		70-130	NA	0-20			LFM	
	17291	TOTAL ORGANIC CARBON	0.50	4.26		4.00	mg/L	94		70-130	NA	0-20			LFM	
	17490	TOTAL ORGANIC CARBON	1.14	5.12		4.00	mg/L	100		70-130	NA	0-20			LFM	
	18412	TOTAL ORGANIC CARBON	6.01	9.83		4.00	mg/L	96		70-130	NA	0-20			LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-08034

Report Date: 05/18/15

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1 OF 1

REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	FOR LAB USE ONLY REF# CHECK REGULATORY PROGRAM <input type="checkbox"/> SAFE DRINKING WATER ACT <input type="checkbox"/> CLEAN WATER ACT <input type="checkbox"/> RCRA / CERCLA <input type="checkbox"/> OTHER
ADDRESS: 2405 140TH AVE. NE STE 107	ADDRESS: PO Box 5000	
CITY: BELLEVUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	
ATTN: ELENA RAMIREZ	PHONE: 360-678-7338 FAX:	
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#: ATTN:	
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> M/C <input type="checkbox"/> A/E EXPIRES /	
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	



ANALYTICAL

Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

ANALYSIS REQUESTED

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

15-08034
 18408 - 18415

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX*	DATE	TIME	Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, IDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1 0415-01	Coupeville Landfill	G	GW	4/27/15	1552	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11	Please send copy of this chain with sample receipt to eramirez@scsengineers.com
2 0415-02	Coupeville Landfill	G	GW		1111	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
3 0415-03	Coupeville Landfill	G	GW		1252	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
4 0415-04	Coupeville Landfill	G	GW		1216	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
5 0415-05	Coupeville Landfill	G	GW		1252	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
6 0415-06	Coupeville Landfill	G	GW		1635	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
7 0415-07	Coupeville Landfill	G	GW		1510	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	
8 0415-09	Coupeville Landfill	G	GW	↓	1626	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11	
9 0415-TRIP Blank	Coupeville Landfill	G	GW	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 0415-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLED BY: *Matt O'Hare & Sam Gougeon* PHONE: *425-463-6196* FAX: EMAIL: *Mohare@scsengineers.com* **FP** TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) *W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL
 DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER

CUSTODY SEALS INTACT

SAMPLE TEMP *4.6* °C SATISFACTORY

EVIDENCE OF COOLING

SAMPLES RECEIVED INTACT

CHAIN OF CUSTODY & LABELS AGREE

YES	NO	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>Matt O'Hare</i>	4/27/15	0730	<i>Sam Gougeon</i>	4-28-15	1630

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 3Q 2015

Project Details

Project No.	04207033.08	Site Name	Island County Coupeville SWF
Data Validator	Sam Graber	Data Level	Level II
Date	9/11/2015	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)
15-13624	Cooler temp. 8.1C	Edge Analytical
15-13755	No comments.	Edge Analytical
15-13973	No comments.	Edge Analytical
15-14096	Cooler temp. 3.2, 8.6, 4.2C	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
15-13624	x	x	x	x	x	x	
15-13755	x	x	x	x	x	x	
15-13973	x	x	x	x	x	x	
15-14096	x	x	x	x	x	x	x

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
CAL	See lab reports.	No comments.
LFB	See lab reports.	Several analytes were flagged with values outside of threshold criteria.
LRB	Acceptable	No comments.
MB	See lab reports.	No comments.
QCS	Acceptable	No comments.
LFM	See lab reports.	Several analytes flagged with % recovery of matrix spike outside control limits.
DUP	See lab reports.	Several analytes over acceptable %RPD range.

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	E1D	E1D-Dup	RPD (%)	N3S	N3S-Dup	RPD (%)
1,1,1-Trichloroethane	µg/L	ND	ND	0.0	ND	ND	0.0
Alkalinity	mg/L	807	801	0.75	489	489	0.0
Alkalinity, Bicarbonate	mg/L	807	801	0.75	489	489	0.0
Arsenic	mg/L	0.004	0.0038	5.1	0.011	0.0091	18.9
Chloride	mg/L	81.1	81.7	0.73	36	36	0.0

Duplicate Evaluation							
Analyte	Units	EID	EID-Dup	RPD (%)	N3S	N3S-Dup	RPD (%)
Chromium	mg/L	0.00084	0.0008	4.8	0.011	0.0091	18.9
cis-1,2-Dichloroethylene	µg/L	ND	ND	0	ND	ND	0.0
Copper	mg/L	0.0012	0.0021	54.5	0.0017	0.001	51.8
Fluoride	mg/L	0.11	0.11	0.0	ND	ND	0.0
Iron	mg/L	0.008	0.008	0.0	0.03	0.02	40
Magnesium	mg/L	106	107	0.93	49.9	49.2	1.4
Manganese	mg/L	0.038	0.034	11.1	0.003	0.001	100
Nickel	mg/L	0.0063	0.0065	3.1	0.002	0.0014	35.2
Nitrate/Nitrite, Total	mg/L	0.17	0.19	11.1	6.02	6.35	5.3
Potassium	mg/L	8.6	8.8	2.3	5.8	5.7	1.7
Sodium	mg/L	43.8	44.3	1.1	27.7	27.2	1.8
Sulfate	mg/L	48.5	48.6	0.21	45	45	0.0
Total Dissolved Solids	mg/L	973	979	0.31	687	681	0.87
Total Organic Carbon	mg/L	1.14	1.07	6.33	0.83	0.92	10.2
Vinyl Chloride	mg/L	0.207	0.196	5.5	ND	ND	0.0

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.	15-13624, 15-13755, 15-13973, 15-14096
E	Concentration exceeds the calibration range. Values outside calibration range are estimates only.	15-14096
HQ	High QCS recovery due to increased detector response of the sample extract. The continuing calibration checks are within acceptance limits.	15-14096
HR	High QCS recovery.	15-13755, 15-13973, 15-14096
IEV	Acceptance criteria do not apply to estimated values.	15-13624, 15-13755, 15-13973, 15-14096
IM	Matrix induced bias assumed	15-13624, 15-13755, 15-13973, 15-14096
INH	The sample was non-homogeneous	15-13973, 15-14096
IS	The ratio of spike to sample was too low to meet performance criteria	15-13624, 15-13755, 15-13973, 15-14096
J	Indicates an estimated concentration. Concentration is below calibration curve but above method detection limit.	15-13624, 15-13755, 15-13973, 15-14096
L1	The associated blank spike recovery was above laboratory acceptance limits.	15-13624, 15-13755, 15-13973
LE	End calibration below acceptable limits	
LR	Low recovery cannot be accounted for.	15-13755, 15-13973, 15-14096
M2	Matrix spike recovery was low; associated blank spike recovery was acceptable	15-13755, 15-13973, 15-14096
M8	Acceptance limits do not apply fortified at or below the QL and MRL	15-14096
S	Spike amount lower than 5:1	15-14096

Qualified Data and Usability

The laboratory did not run the trip blank as an independent sample and was not included with the VOC results.

The laboratory identified the sample matrix as surface, although they have been provided documentation that the matrix is groundwater.

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.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

August 7, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005
RE: 15-13973 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Thursday July 09, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-13973**
 Project: Coupeville Landfill

Report Date: 8/7/15

Date Received: 7/9/15

Approved by: bj,mvp,sps

Authorized by:

Sample Description: 0715-14 - Coupeville Landfill										Sample Date: 7/8/15 11:02 am		
Lab Number: 31206		Sample Comment:								Collected By: Sam Graber		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	41.4	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	39.4	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	0.5	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	539	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	539	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	676	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.69	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716	
7440-70-2	CALCIUM	141.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.01 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	52.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	5.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	30.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0023	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.047	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.006	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00016 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0008 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.00019 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.0018	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0004 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.0003E	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0056	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-15 - Coupeville Landfill								Sample Date: 7/8/15 12:02 pm			
Lab Number: 31207				Sample Comment:				Collected By: Sam Graber			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	6.4	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	211	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	5.43	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	344	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	344	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	716	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	22	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	6.07	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716	
7440-70-2	CALCIUM	120.7	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.05	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	52.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	5.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	27.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.036	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.0002E	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.009	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0002 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0027	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0003 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.0003E	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0025	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0026	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. = Dilution Factor

Data Report

Sample Description: 0715-16 - Coupeville Landfill									Sample Date: 7/8/15 2:05 pm			
Lab Number: 31208			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	65.9	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.11	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	63.8	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	2.15	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	514	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	514	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	726	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	14	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.58	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716	
7440-70-2	CALCIUM	115.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.006 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	73.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	8.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	40.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0027	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.028	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.00091 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00017 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0019 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.018	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0008 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0037	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Sample Description: 0715-17 - Coupeville Landfill									Sample Date: 7/8/15 3:12 pm			
Lab Number: 31209			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	34.8	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	110	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10128	TOTAL NITRATE/NITRITE	5.64	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A
E-14506	ALKALINITY	773	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710
NA	BICARBONATE	773	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	1005	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714
E-10195	TOTAL ORGANIC CARBON	1.64	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716
7440-70-2	CALCIUM	194.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7439-89-6	IRON	0.01 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7439-95-4	MAGNESIUM	99.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7440-09-7	POTASSIUM	9.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7440-23-5	SODIUM	33.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-38-2	ARSENIC	0.00109	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.054	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.00095 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	0.0002 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0019 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.006	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-02-0	NICKEL	0.0053	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.00045 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.0045	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.002 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-18 - Coupeville Landfill								Sample Date: 7/8/15 4:10 pm				
Lab Number: 31210		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	39.5	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.12	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	13	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	317	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	317	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.28	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	408	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	1.21	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716
7440-70-2	CALCIUM	38.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7439-89-6	IRON	0.10	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7439-95-4	MAGNESIUM	52.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7440-09-7	POTASSIUM	9.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7440-23-5	SODIUM	27.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.028	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.0009 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0045	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	0.00045 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.036	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-02-0	NICKEL	0.0003 J	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.00015 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.0002 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.026	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-19 - Coupeville Landfill								Sample Date: 7/8/15 4:50 pm				
Lab Number: 31211		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	51.7	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.14	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	40.2	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	350	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	350	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	503	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.45	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716	
7440-70-2	CALCIUM	78.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.25	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	48.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	6.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	32.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.032	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.00077 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	0.0002 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0015 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	0.00024 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.102	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0004 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.088	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-20 - Coupeville Landfill	Sample Date: 7/8/15 5:50 pm
Lab Number: 31212	Sample Comment:
	Collected By: Sam Graber

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	43.7	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.14	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	53.2	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	3.75	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	370	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	370	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	545	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.53	0.15	0.05	mg/L	1.0	SM5310 B	a	7/16/15	BJ	TOC_150716	
7440-70-2	CALCIUM	89.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.009 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	48.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	4.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	34.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0016	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.026	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0025	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0001 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.001 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. = Dilution Factor

Data Report

7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.0005 J	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0015 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31212
Field ID: 0715-20
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31212
Field ID: 0715-20
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31211
Field ID: 0715-19
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31211
Field ID: 0715-19
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31210
Field ID: 0715-18
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31210
Field ID: 0715-18
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31209
Field ID: 0715-17
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	0.9		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.7		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.1		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31209
Field ID: 0715-17
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.022		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31208
Field ID: 0715-16
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	3	3	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.5		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31208
Field ID: 0715-16
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.075		ug/L	0.02	0.01	0.0059	1.00	a	Field DUP: .053 ug/L
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31207
Field ID: 0715-15
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.7		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	0.6		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	5.8		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31207
Field ID: 0715-15
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31206
Field ID: 0715-14
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13973**
Project: Coupeville Landfill

Lab Number: 31206
Field ID: 0715-14
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/8/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
350.1_150720	0 AMMONIA-N	2.60	2.50	mg/L	350.1	104	90-110		CAL	
6010B_150724C	2 CALCIUM	10.8	11	mg/L	6010B	98	90-110		CAL	
	2 IRON	1	1	mg/L	6010B	100	90-110		CAL	
	2 MAGNESIUM	11.3	11	mg/L	6010B	103	90-110		CAL	
	2 POTASSIUM	9.6	10	mg/L	6010B	96	90-110		CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110		CAL	
6010B_150728A	2 CALCIUM	10.9	11	mg/L	6010B	99	90-110		CAL	
	2 IRON	1	1	mg/L	6010B	100	90-110		CAL	
	2 MAGNESIUM	11	11	mg/L	6010B	100	90-110		CAL	
	2 POTASSIUM	9.6	10	mg/L	6010B	96	90-110		CAL	
	2 SODIUM	10.8	11	mg/L	6010B	98	90-110		CAL	
6020_150728	0 ANTIMONY	0.0011	0.001	mg/L	6020A	110	80-120		CAL	
	0 ARSENIC	0.00106	0.001	mg/L	6020A	106	80-120		CAL	
	0 BARIUM	0.00106	0.001	mg/L	6020A	106	80-120		CAL	
	0 BERYLLIUM	0.0011	0.001	mg/L	6020A	110	80-120		CAL	
	0 CADMIUM	0.00106	0.001	mg/L	6020A	106	80-120		CAL	
	0 CHROMIUM	0.00106	0.001	mg/L	6020A	106	80-120		CAL	
	0 COBALT	0.001	0.001	mg/L	6020A	100	80-120		CAL	
	0 COPPER	0.00101	0.001	mg/L	6020A	101	80-120		CAL	
	0 LEAD	0.00105	0.001	mg/L	6020A	105	80-120		CAL	
	0 MANGANESE	0.00102	0.001	mg/L	6020A	102	80-120		CAL	
	0 NICKEL	0.00107	0.001	mg/L	6020A	107	80-120		CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120		CAL	
	0 SILVER	0.00099	0.001	mg/L	6020A	99	80-120		CAL	
	0 THALLIUM	0.00105	0.001	mg/L	6020A	105	80-120		CAL	
	0 VANADIUM	0.00103	0.001	mg/L	6020A	103	80-120		CAL	
	0 ZINC	0.00098	0.001	mg/L	6020A	98	80-120		CAL	
6020_150730	0 ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120		CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150710A	0 CHLORIDE	1.01	1	mg/L	300.0	101	90-110	CAL	
	0 FLUORIDE	1.04	1	mg/L	300.0	104	90-110	CAL	
	0 SULFATE	2.17	2	mg/L	300.0	109	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.16	2	mg/L	300.0	108	90-110	CAL	
TOC_150716	0 TOTAL ORGANIC CARBON	2.64	2.50	mg/L	SM5310 B	106	90-110	CAL	
	1 TOTAL ORGANIC CARBON	101.7	100.0	mg/L	SM5310 B	102	90-110	CAL	
	2 TOTAL ORGANIC CARBON	4.93	5.00	mg/L	SM5310 B	99	90-110	CAL	
	3 TOTAL ORGANIC CARBON	0.45	0.50	mg/L	SM5310 B	90	90-110	CAL	
	4 TOTAL ORGANIC CARBON	0.16	0.15	mg/L	SM5310 B	107	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B_150724C	0 CALCIUM	26.1	26	mg/L	6010B	100	85-115	LFB	
	0 IRON	0.97	1	mg/L	6010B	97	85-115	LFB	
	0 MAGNESIUM	26.3	26	mg/L	6010B	101	85-115	LFB	
	0 POTASSIUM	33.8	35	mg/L	6010B	97	85-115	LFB	
	0 SODIUM	26	26	mg/L	6010B	100	85-115	LFB	
6010B_150728A	0 CALCIUM	26.3	26	mg/L	6010B	101	85-115	LFB	
	0 IRON	1	1	mg/L	6010B	100	85-115	LFB	
	0 MAGNESIUM	26.1	26	mg/L	6010B	100	85-115	LFB	
	0 POTASSIUM	33.7	35	mg/L	6010B	96	85-115	LFB	
	0 SODIUM	25.9	26	mg/L	6010B	100	85-115	LFB	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	80-120	LFB	
	0 ARSENIC	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 BARIUM	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	80-120	LFB	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 CHROMIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 COBALT	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 COPPER	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 LEAD	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 MANGANESE	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 SELENIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 SILVER	0.019	0.020	mg/L	6020A	95	80-120	LFB	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 VANADIUM	0.036	0.040	mg/L	6020A	90	80-120	LFB	
0 ZINC	0.041	0.040	mg/L	6020A	103	80-120	LFB		
8260W_150720	0 1,1 - DICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC		Comment
			Value	Units					Qualifier	Type	
8260W_150720	0 1,1,1,2 - TETRACHLOROETHANE	3.6	4	ug/L	8260B	90	80-120			LFB	
	0 1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120			LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	3.7	4	ug/L	8260B	93	80-120			LFB	
	0 1,2 - DICHLOROETHANE (ortho)	3.5	4	ug/L	8260B	88	80-120			LFB	
	0 1,2 - DICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120			LFB	
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120			LFB	
	0 1,2,3 - TRICHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120			LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120			LFB	
	0 1,4 - DICHLOROETHANE (para)	3.6	4	ug/L	8260B	90	80-120			LFB	
	0 2-BUTANONE (MEK)	13.3	10	ug/L	8260B	133	80-120	HR		LFB	
	0 2-HEXANONE	13.0	10	ug/L	8260B	130	80-120	HR		LFB	
	0 4-METHYL-2-PENTANONE	10.1	10	ug/L	8260B	101	80-120			LFB	
	0 ACETONE	11.5	10	ug/L	8260B	115	80-120	AH		LFB	
	0 BENZENE	3.9	4	ug/L	8260B	98	80-120			LFB	
	0 BROMOCHLOROMETHANE	3.9	4	ug/L	8260B	98	80-120			LFB	
	0 BROMODICHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120			LFB	
	0 BROMOFORM	3.0	4	ug/L	8260B	75	80-120	LR		LFB	
	0 BROMOMETHANE	4.1	4	ug/L	8260B	103	80-120			LFB	
	0 CARBON DISULFIDE	10.6	10	ug/L	8260B	106	80-120			LFB	
	0 CARBON TETRACHLORIDE	3.9	4	ug/L	8260B	98	80-120			LFB	
	0 CHLOROETHANE	4.1	4	ug/L	8260B	103	80-120			LFB	
	0 CHLOROFORM	3.7	4	ug/L	8260B	93	80-120			LFB	
	0 CHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120			LFB	
	0 CIS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120			LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	3.7	4	ug/L	8260B	93	80-120			LFB	
	0 DIBROMOCHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120			LFB	
	0 DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120			LFB	
	0 ETHYLBENZENE	3.7	4	ug/L	8260B	93	80-120			LFB	
	0 M,P- XYLENE	7.2	8	ug/L	8260B	90	80-120			LFB	
	0 METHYL IODIDE	10.1	10	ug/L	8260B	101	80-120			LFB	
	0 METHYLENE CHLORIDE	3.6	4	ug/L	8260B	90	80-120			LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC		Comment
			Value	Units					Qualifier	Type	
8260W_150720	0 O - XYLENE	3.6	4	ug/L	8260B	90	80-120		LFB		
	0 STYRENE	3.6	4	ug/L	8260B	90	80-120		LFB		
	0 TETRACHLOROETHYLENE	3.8	4	ug/L	8260B	95	80-120		LFB		
	0 TOLUENE	3.8	4	ug/L	8260B	95	80-120		LFB		
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120		LFB		
	0 TRANS - 1,3 - DICHLOROPROPENE	3.4	4	ug/L	8260B	85	80-120		LFB		
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.2	10	ug/L	8260B	112	80-120		LFB		
	0 TRICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120		LFB		
	0 TRICHLOROFLUOROMETHANE	3.6	4	ug/L	8260B	90	80-120		LFB		
	0 VINYL ACETATE	11.9	10	ug/L	8260B	119	80-120		LFB		
	0 VINYL CHLORIDE	3.5	4	ug/L	8260B	88	80-120		LFB		
COD_150714	0 CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D	98	90-110		LFB		
SIM_150713	0 1,2 - DIBROMOETHANE (EDB SIM)	0.125	0.1	ug/L	8260SIM	125	70-130	L1	LFB	SIMS ANALYSIS	
	0 ACRYLONITRILE (SIM)	0.098	0.1	ug/L	8260SIM	98	70-130		LFB	SIMS ANALYSIS	
	0 VINYL CHLORIDE (SIM)	0.106	0.1	ug/L	8260SIM	106	70-130		LFB	SIMS ANALYSIS	
TOC_150716	0 TOTAL ORGANIC CARBON	1.00	1.00	mg/L	SM5310 B	100	90-110		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150710	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_150720	0 AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B_150724C	0 CALCIUM	ND		mg/L	6010B		0-0		LRB	
	0 IRON	ND		mg/L	6010B		0-0		LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	0 SODIUM	ND		mg/L	6010B		0-0		LRB	
6010B_150728A	0 CALCIUM	ND		mg/L	6010B		0-0		LRB	
	0 IRON	ND		mg/L	6010B		0-0		LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	0 SODIUM	ND		mg/L	6010B		0-0		LRB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0		LRB	
	0 BARIUM	ND		mg/L	6020A		0-0		LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0		LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	0 COBALT	ND		mg/L	6020A		0-0		LRB	
	0 COPPER	ND		mg/L	6020A		0-0		LRB	
	0 LEAD	ND		mg/L	6020A		0-0		LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0		LRB	
	0 NICKEL	ND		mg/L	6020A		0-0		LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0		LRB	
	0 SILVER	ND		mg/L	6020A		0-0		LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0		LRB	
	0 VANADIUM	ND		mg/L	6020A		0-0		LRB	
0 ZINC	ND		mg/L	6020A		0-0		LRB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
6020_150730	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	
1150710A	0 CHLORIDE	ND		mg/L	300.0		0-0		LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0		LRB	
	0 SULFATE	ND		mg/L	300.0		0-0		LRB	
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0		LRB	
TOC_150716	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150710	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	MB	
350.1_150720	0 AMMONIA-N	ND		mg/L	350.1		0-0	MB	
6010B_150724C	0 CALCIUM	ND		mg/L	6010B		0-0	MB	
	0 IRON	ND		mg/L	6010B		0-0	MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	MB	
	0 SODIUM	ND		mg/L	6010B		0-0	MB	
6010B_150728A	0 CALCIUM	ND		mg/L	6010B		0-0	MB	
	0 IRON	0.02		mg/L	6010B		0-0	MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	MB	
	0 SODIUM	ND		mg/L	6010B		0-0	MB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0	MB	
	0 ARSENIC	ND		mg/L	6020A		0-0	MB	
	0 BARIUM	ND		mg/L	6020A		0-0	MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	MB	
	0 CADMIUM	ND		mg/L	6020A		0-0	MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	MB	
	0 COBALT	ND		mg/L	6020A		0-0	MB	
	0 COPPER	ND		mg/L	6020A		0-0	MB	
	0 LEAD	ND		mg/L	6020A		0-0	MB	
	0 MANGANESE	ND		mg/L	6020A		0-0	MB	
	0 NICKEL	ND		mg/L	6020A		0-0	MB	
	0 SELENIUM	ND		mg/L	6020A		0-0	MB	
	0 SILVER	ND		mg/L	6020A		0-0	MB	
	0 THALLIUM	ND		mg/L	6020A		0-0	MB	
	0 VANADIUM	ND		mg/L	6020A		0-0	MB	
0 ZINC	ND		mg/L	6020A		0-0	MB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
1 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973	
1 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13973	
1 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973	
COD_150714	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D	0-3		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
SIM_150713	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13755
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13755
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13755
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13624
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13624
	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13624
tds_150710	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3		MB	
	1 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3		MB	
	2 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3		MB	
TOC_150716	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150710	0 ALKALINITY	97.8	100	mg CaCO3/l	310.2	98	85-115	QCS	
350.1_150720	0 AMMONIA-N	2.78	2.85	mg/L	350.1	98	85-115	QCS	
6010B_150724C	0 IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	1 CALCIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	1 MAGNESIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	1 POTASSIUM	19.9	20	mg/L	6010B	100	90-110	QCS	
	1 SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6010B_150728A	0 IRON	2.04	2	mg/L	6010B	102	90-110	QCS	
	1 CALCIUM	20	20	mg/L	6010B	100	90-110	QCS	
	1 MAGNESIUM	20	20	mg/L	6010B	100	90-110	QCS	
	1 POTASSIUM	19.8	20	mg/L	6010B	99	90-110	QCS	
	1 SODIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BARIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CHROMIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COBALT	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 MANGANESE	0.036	0.040	mg/L	6020A	90	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 VANADIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-13973**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
6020_150730	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
COD_150714	0 CHEMICAL OXYGEN DEMAND	135	137	mg/L	SM5220 D	99	90-110	QCS	
I150710A	0 CHLORIDE	5.77	6	mg/L	300.0	96	90-110	QCS	
	0 FLUORIDE	3.9	4	mg/L	300.0	98	90-110	QCS	
	0 SULFATE	29.4	30	mg/L	300.0	98	90-110	QCS	
	0 TOTAL NITRATE/NITRITE	11.74	12	mg/L	300.0	98	90-110	QCS	
tds_150710	0 TOTAL DISSOLVED SOLIDS (TDS)	502	500	mg/L	SM2540 C	100	80-120	QCS	
	1 TOTAL DISSOLVED SOLIDS (TDS)	492	500	mg/L	SM2540 C	98	80-120	QCS	
TOC_150716	0 TOTAL ORGANIC CARBON	4.93	5.00	mg/L	SM5310 B	99	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
Duplicate											
310.2_150710											
	30819	ALKALINITY	489	489		mg/L	0.0	0-20			DUP
	30819	BICARBONATE	489	489		mg/L	0.0	0-20			DUP
	31209	ALKALINITY	773	773		mg/L	0.0	0-20			DUP
	31209	BICARBONATE	773	773		mg/L	0.0	0-20			DUP
	31336	ALKALINITY	425	426		mg CaCO3/l	0.2	0-20			DUP
350.1_150720											
	31210	AMMONIA-N	0.28	0.28		mg/L	0.0	0-20			DUP
	31510	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
	31599	AMMONIA-N	2.73	2.70		mg/L	1.1	0-20			DUP
	31929	AMMONIA-N	0.08	0.08		mg/L	0.0	0-20			DUP
	32363	AMMONIA-N	0.03	0.02		mg/L	40.0	0-20	INH		DUP
	32815	AMMONIA-N	4.03	4.04		mg/L	0.2	0-20			DUP
6010B_150724C											
	30546	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	30546	CALCIUM	57.4	57.7		mg/L	0.5	0-20			DUP
	30546	MAGNESIUM	71.0	71.4		mg/L	0.6	0-20			DUP
	30546	POTASSIUM	9.5	9.6		mg/L	1.0	0-20			DUP
	30546	SODIUM	43.2	43.5		mg/L	0.7	0-20			DUP
	30823	IRON	0.007	0.006		mg/L	15.4	0-20			DUP
	30823	CALCIUM	30.8	31.2		mg/L	1.3	0-20			DUP
	30823	MAGNESIUM	29.8	30.0		mg/L	0.7	0-20			DUP
	30823	POTASSIUM	2.3	2.3		mg/L	0.0	0-20			DUP
	30823	SODIUM	12.2	12.3		mg/L	0.8	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	31506	IRON	0.08	0.08	mg/L	0.0	0-20		DUP	
	31506	CALCIUM	63.1	62.8	mg/L	0.5	0-20		DUP	
	31506	MAGNESIUM	36.3	36.1	mg/L	0.6	0-20		DUP	
	31506	POTASSIUM	6.1	6.1	mg/L	0.0	0-20		DUP	
	31506	SODIUM	26.2	26.1	mg/L	0.4	0-20		DUP	
	31516	IRON	10.57	10.59	mg/L	0.2	0-20		DUP	
	31516	CALCIUM	41.9	41.6	mg/L	0.7	0-20		DUP	
	31516	MAGNESIUM	31.3	31.1	mg/L	0.6	0-20		DUP	
	31516	POTASSIUM	11.6	11.6	mg/L	0.0	0-20		DUP	
	31516	SODIUM	19.8	19.7	mg/L	0.5	0-20		DUP	
6020_150728										
	30546	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	30546	ARSENIC	0.007	0.007	mg/L	0.0	0-20		DUP	
	30546	BARIUM	0.063	0.065	mg/L	3.1	0-20		DUP	
	30546	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30546	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	30546	CHROMIUM	0.001	0.00091	mg/L	9.4	0-20		DUP	
	30546	COBALT	0.0001	0.00007	mg/L	35.3	0-20	IEV	DUP	
	30546	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	30546	LEAD	0.00008	0.00009	mg/L	11.8	0-20		DUP	
	30546	MANGANESE	0.141	0.145	mg/L	2.8	0-20		DUP	
	30546	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	30546	SELENIUM	0.00036	0.0002	mg/L	57.1	0-20	IEV	DUP	
	30546	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	30546	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30546	VANADIUM	0.0003	0.00025	mg/L	18.2	0-20		DUP	
	30546	ZINC	0.0036	0.0033	mg/L	8.7	0-20		DUP	
	30823	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	30823	ARSENIC	0.0017	0.0017	mg/L	0.0	0-20		DUP	
	30823	BARIUM	0.013	0.013	mg/L	0.0	0-20		DUP	
	30823	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30823	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	30823	CHROMIUM	0.003	0.003	mg/L	0.0	0-20		DUP	
	30823	COBALT	ND	ND	mg/L	NA	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	30823	COPPER	0.0015	0.0015		mg/L	0.0	0-20		DUP	
	30823	LEAD	ND	ND		mg/L	NA	0-20		DUP	
	30823	MANGANESE	0.002	0.002		mg/L	0.0	0-20		DUP	
	30823	NICKEL	0.007	0.007		mg/L	0.0	0-20		DUP	
	30823	SELENIUM	0.0002	0.0002		mg/L	0.0	0-20		DUP	
	30823	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	30823	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	30823	VANADIUM	0.004	0.004		mg/L	0.0	0-20		DUP	
	30823	ZINC	0.0015	0.0011		mg/L	30.8	0-20	IEV	DUP	
	31506	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	31506	ARSENIC	0.0066	0.0066		mg/L	0.0	0-20		DUP	
	31506	BARIUM	0.020	0.020		mg/L	0.0	0-20		DUP	
	31506	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31506	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	31506	CHROMIUM	0.001	0.001		mg/L	0.0	0-20		DUP	
	31506	COBALT	0.0003	0.0003		mg/L	0.0	0-20		DUP	
	31506	COPPER	0.00075	0.00064		mg/L	15.8	0-20		DUP	
	31506	LEAD	ND	ND		mg/L	NA	0-20		DUP	
	31506	MANGANESE	0.016	0.0157		mg/L	1.9	0-20		DUP	
	31506	NICKEL	0.003	0.003		mg/L	0.0	0-20		DUP	
	31506	SELENIUM	0.0003	0.0003		mg/L	0.0	0-20		DUP	
	31506	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	31506	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31506	VANADIUM	0.002	0.002		mg/L	0.0	0-20		DUP	
	31506	ZINC	0.002	0.0025		mg/L	22.2	0-20	IEV	DUP	
	31516	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	31516	ARSENIC	0.081	0.082		mg/L	1.2	0-20		DUP	
	31516	BARIUM	0.039	0.039		mg/L	0.0	0-20		DUP	
	31516	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	CHROMIUM	0.015	0.015		mg/L	0.0	0-20		DUP	
	31516	COBALT	0.0004	0.0004		mg/L	0.0	0-20		DUP	
	31516	COPPER	0.355	0.359		mg/L	1.1	0-20		DUP	
	31516	LEAD	0.031	0.032		mg/L	3.2	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	31516	MANGANESE	0.128	0.127		mg/L	0.8	0-20		DUP	
	31516	NICKEL	0.0098	0.0097		mg/L	1.0	0-20		DUP	
	31516	SELENIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	31516	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	VANADIUM	ND	ND		mg/L	NA	0-20		DUP	
COD_150714											
	31210	CHEMICAL OXYGEN DEMAND	6	7		mg/L	15.4	0-20		DUP	
	31513	CHEMICAL OXYGEN DEMAND	7	6		mg/L	15.4	0-20		DUP	
	31517	CHEMICAL OXYGEN DEMAND	10	11		mg/L	9.5	0-20		DUP	
I150710A											
	31206	CHLORIDE	41.4	41.7		mg/L	0.7	0-20		DUP	
	31206	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	31206	SULFATE	39.4	39.2		mg/L	0.5	0-20		DUP	
	31206	TOTAL NITRATE/NITRITE	0.5	0.54		mg/L	7.7	0-20		DUP	
	31294	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	31508	CHLORIDE	33	33		mg/L	0.0	0-20		DUP	
	31508	FLUORIDE	0.14	0.14		mg/L	0.0	0-20		DUP	
	31508	SULFATE	15.9	15.9		mg/L	0.0	0-20		DUP	
	31508	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
TDS_150710											
	31208	TOTAL DISSOLVED SOLIDS (TDS)	726	718		mg/L	1.1	0-10		DUP	
	31328	TOTAL DISSOLVED SOLIDS (TDS)	510	510		mg/L	0.0	0-10		DUP	
TOC_150716											
	31160	TOTAL ORGANIC CARBON	1.04	1.01		mg/L	2.9	0-20		DUP	
	31169	TOTAL ORGANIC CARBON	1.02	1.04		mg/L	1.9	0-20		DUP	
	31212	TOTAL ORGANIC CARBON	1.53	1.50		mg/L	2.0	0-20		DUP	
	31514	TOTAL ORGANIC CARBON	0.94	0.97		mg/L	3.1	0-20		DUP	
	31610	TOTAL ORGANIC CARBON	0.99	1.02		mg/L	3.0	0-20		DUP	

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150710															
	30819	ALKALINITY	489	580	579	250	mg/L	36	36	70-130	1.1	0-20	IM	LFM	
	30819	BICARBONATE	489	580	579	250	mg/L	36	36	70-130	1.1	0-20	IM	LFM	
	31209	ALKALINITY	773	874	869	250	mg/L	40	38	70-130	5.1	0-20	IM	LFM	
	31209	BICARBONATE	773	874	869	250	mg/L	40	38	70-130	5.1	0-20	IM	LFM	
	31336	ALKALINITY	425	647	644	250	mg CaCO3/89	89	88	70-130	1.4	0-20		LFM	
350.1_150720															
	31210	AMMONIA-N	0.28	1.36	1.36	1.00	mg/L	108	108	70-130	0.0	0-20		LFM	
	31510	AMMONIA-N	ND	1.09	1.07	1.00	mg/L	109	107	70-130	1.9	0-20		LFM	
	31599	AMMONIA-N	2.73	3.69	3.69	1.00	mg/L	96	96	70-130	0.0	0-20		LFM	
	31929	AMMONIA-N	0.08	1.20	1.19	1.00	mg/L	112	111	70-130	0.9	0-20		LFM	
	32363	AMMONIA-N	0.03	1.08	1.06	1.00	mg/L	105	103	70-130	1.9	0-20		LFM	
	32815	AMMONIA-N	4.03	4.88	4.88	1.00	mg/L	85	85	70-130	0.0	0-20		LFM	
6010B_150724C															
	30546	IRON	0.14	1.10	1.12	1.00	mg/L	96	98	75-125	2.1	0-20		LFM	
	30546	CALCIUM	57.4	82.3	84.1	26.0	mg/L	96	103	75-125	7.0	0-20		LFM	
	30546	MAGNESIUM	71.0	95.3	97.9	26.0	mg/L	93	103	75-125	10.2	0-20		LFM	
	30546	POTASSIUM	9.5	43.5	44.6	35.0	mg/L	97	100	75-125	3.2	0-20		LFM	
	30823	IRON	0.007	0.054		0.050	mg/L	94		75-125	NA	0-20		LFM	
	30823	CALCIUM	30.8	56.2		26.0	mg/L	98		75-125	NA	0-20		LFM	
	30823	MAGNESIUM	29.8	55.1		26.0	mg/L	97		75-125	NA	0-20		LFM	
	30823	POTASSIUM	2.3	36.6		35.0	mg/L	98		75-125	NA	0-20		LFM	
6010B_150728A															
	31506	IRON	0.08	0.13		0.050	mg/L	100		75-125	NA	0-20		LFM	
	31506	CALCIUM	63.1	88.6		26.0	mg/L	98		75-125	NA	0-20		LFM	
	31506	MAGNESIUM	36.3	61.4		26.0	mg/L	97		75-125	NA	0-20		LFM	
	31506	POTASSIUM	6.1	39.7		35.0	mg/L	96		75-125	NA	0-20		LFM	
	31516	IRON	10.57	11.40		1.00	mg/L	83		75-125	NA	0-20		LFM	
	31516	CALCIUM	41.9	67.3		26.0	mg/L	98		75-125	NA	0-20		LFM	
	31516	MAGNESIUM	31.3	56.4		26.0	mg/L	97		75-125	NA	0-20		LFM	
	31516	POTASSIUM	11.6	44.8		35.0	mg/L	95		75-125	NA	0-20		LFM	
6020_150728															
	30546	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20		LFM	

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				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	30546	ARSENIC	0.007	0.058		0.050	mg/L	102			75-125	NA	0-20		LFM	
	30546	BARIUM	0.063	0.112		0.050	mg/L	98			75-125	NA	0-20		LFM	
	30546	BERYLLIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	30546	CADMIUM	ND	0.050		0.050	mg/L	100			75-125	NA	0-20		LFM	
	30546	CHROMIUM	0.001	0.049		0.050	mg/L	96			75-125	NA	0-20		LFM	
	30546	COBALT	0.0001	0.047		0.050	mg/L	94			75-125	NA	0-20		LFM	
	30546	COPPER	0.001	0.050		0.050	mg/L	98			75-125	NA	0-20		LFM	
	30546	LEAD	0.00008	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	30546	MANGANESE	0.141	0.187		0.050	mg/L	92			75-125	NA	0-20		LFM	
	30546	NICKEL	0.001	0.050		0.050	mg/L	98			75-125	NA	0-20		LFM	
	30546	SELENIUM	0.00036	0.050		0.050	mg/L	99			75-125	NA	0-20		LFM	
	30546	SILVER	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	30546	THALLIUM	ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	30546	VANADIUM	0.0003	0.048		0.050	mg/L	95			75-125	NA	0-20		LFM	
	30546	ZINC	0.0036	0.053		0.050	mg/L	99			75-125	NA	0-20		LFM	
	30823	ANTIMONY	ND	1.065		1.000	mg/L	107			75-125	NA	0-20		LFM	
	30823	ARSENIC	0.0017	0.994		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	BARIUM	0.013	0.993		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	BERYLLIUM	ND	0.992		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CADMIUM	ND	0.990		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CHROMIUM	0.003	0.946		1.000	mg/L	94			75-125	NA	0-20		LFM	
	30823	COBALT	ND	1.015		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	COPPER	0.0015	0.959		1.000	mg/L	96			75-125	NA	0-20		LFM	
	30823	LEAD	ND	0.989		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	MANGANESE	0.002	1.004		1.000	mg/L	100			75-125	NA	0-20		LFM	
	30823	NICKEL	0.007	1.001		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	SELENIUM	0.0002	0.982		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	SILVER	ND	0.253		0.500	mg/L	51			75-125	NA	0-20	IM	LFM	
	30823	THALLIUM	ND	0.948		1.000	mg/L	95			75-125	NA	0-20		LFM	
	30823	VANADIUM	0.004	1.020		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	ZINC	0.0015	1.000		1.000	mg/L	100			75-125	NA	0-20		LFM	
	31506	ANTIMONY	ND	0.056		0.050	mg/L	112			75-125	NA	0-20		LFM	
	31506	ARSENIC	0.0066	0.058		0.050	mg/L	103			75-125	NA	0-20		LFM	
	31506	BARIUM	0.020	0.070		0.050	mg/L	100			75-125	NA	0-20		LFM	

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	31506	BERYLLIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20		LFM	
	31506	CADMIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20		LFM	
	31506	CHROMIUM	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	31506	COBALT	0.0003	0.049		0.050	mg/L	97		75-125	NA	0-20		LFM	
	31506	COPPER	0.00075	0.051		0.050	mg/L	101		75-125	NA	0-20		LFM	
	31506	LEAD	ND	0.049		0.050	mg/L	98		75-125	NA	0-20		LFM	
	31506	MANGANESE	0.016	0.0635		0.050	mg/L	95		75-125	NA	0-20		LFM	
	31506	NICKEL	0.003	0.054		0.050	mg/L	102		75-125	NA	0-20		LFM	
	31506	SELENIUM	0.0003	0.051		0.050	mg/L	101		75-125	NA	0-20		LFM	
	31506	SILVER	ND	0.024		0.025	mg/L	96		75-125	NA	0-20		LFM	
	31506	THALLIUM	ND	0.049		0.050	mg/L	98		75-125	NA	0-20		LFM	
	31506	VANADIUM	0.002	0.049		0.050	mg/L	94		75-125	NA	0-20		LFM	
	31506	ZINC	0.002	0.053		0.050	mg/L	102		75-125	NA	0-20		LFM	
	31516	ANTIMONY	ND	0.046		0.050	mg/L	92		75-125	NA	0-20		LFM	
	31516	ARSENIC	0.081	0.116		0.050	mg/L	70		75-125	NA	0-20	IM	LFM	
	31516	BARIUM	0.039	0.077		0.050	mg/L	76		75-125	NA	0-20		LFM	
	31516	BERYLLIUM	ND	0.043		0.050	mg/L	86		75-125	NA	0-20		LFM	
	31516	CADMIUM	ND	0.043		0.050	mg/L	86		75-125	NA	0-20		LFM	
	31516	CHROMIUM	0.015	0.052		0.050	mg/L	74		75-125	NA	0-20	IM	LFM	
	31516	COBALT	0.0004	0.041		0.050	mg/L	81		75-125	NA	0-20		LFM	
	31516	COPPER	0.355	0.357		0.050	mg/L	4		75-125	NA	0-20	IS	LFM	
	31516	LEAD	0.031	0.069		0.050	mg/L	76		75-125	NA	0-20		LFM	
	31516	MANGANESE	0.128	0.147		0.050	mg/L	38		75-125	NA	0-20	IM	LFM	
	31516	NICKEL	0.0098	0.051		0.050	mg/L	82		75-125	NA	0-20		LFM	
	31516	SELENIUM	ND	0.039		0.050	mg/L	78		75-125	NA	0-20		LFM	
	31516	SILVER	ND	0.021		0.025	mg/L	84		75-125	NA	0-20		LFM	
	31516	THALLIUM	ND	0.042		0.050	mg/L	84		75-125	NA	0-20		LFM	
	31516	VANADIUM	ND	0.040		0.050	mg/L	80		75-125	NA	0-20		LFM	
8260W_150720															
	31507	1,1 - DICHLOROETHANE	ND	5.0	4.6	4	ug/L	125	115	70-130	8.3	0-20		LFM	
	31507	1,1 - DICHLOROETHYLENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	31507	1,1,1 - TRICHLOROETHANE	ND	4.8	4.6	4	ug/L	120	115	70-130	4.3	0-20		LFM	
	31507	1,1,1,2 - TETRACHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20		LFM	
	31507	1,1,2 - TRICHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20		LFM	

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				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	31507	1,1,2,2 - TETRACHLOROETHANE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	31507	1,2 - DICHLOROBENZENE (ortho)	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20		LFM	
	31507	1,2 - DICHLOROETHANE	ND	4.9	4.7	4	ug/L	123	118	70-130	4.2	0-20		LFM	
	31507	1,2 - DICHLOROPROPANE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20		LFM	
	31507	1,2,3 - TRICHLOROPROPANE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	31507	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.6	3.5	4	ug/L	90	88	70-130	2.8	0-20		LFM	
	31507	1,4 - DICHLOROBENZENE (para)	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0	0-20		LFM	
	31507	BENZENE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20		LFM	
	31507	BROMOCHLOROMETHANE	ND	4.6	4.5	4	ug/L	115	113	70-130	2.2	0-20		LFM	
	31507	BROMODICHLOROMETHANE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM	
	31507	BROMOFORM	ND	3.4	3.2	4	ug/L	85	80	70-130	6.1	0-20		LFM	
	31507	BROMOMETHANE	ND	1.6	1.6	4	ug/L	40	40	70-130	0.0	0-20	M2	LFM	
	31507	CARBON TETRACHLORIDE	ND	4.9	4.7	4	ug/L	123	118	70-130	4.2	0-20		LFM	
	31507	CHLOROENZENE	ND	4.4	4.4	4	ug/L	110	110	70-130	0.0	0-20		LFM	
	31507	CHLOROETHANE	ND	4.9	4.5	4	ug/L	123	113	70-130	8.5	0-20		LFM	
	31507	CHLOROFORM	ND	4.7	4.5	4	ug/L	118	113	70-130	4.3	0-20		LFM	
	31507	CHLOROMETHANE	ND	4.1	4.2	4	ug/L	103	105	70-130	2.4	0-20		LFM	
	31507	CIS - 1,2 - DICHLOROETHENE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20		LFM	
	31507	CIS - 1,3 - DICHLOROPROPENE	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20		LFM	
	31507	DIBROMOCHLOROMETHANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5	0-20		LFM	
	31507	DIBROMOMETHANE	ND	4.6	4.4	4	ug/L	115	110	70-130	4.4	0-20		LFM	
	31507	ETHYLBENZENE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20		LFM	
	31507	M,P- XYLENE	ND	8.5	8.5	8	ug/L	106	106	70-130	0.0	0-20		LFM	
	31507	METHYLENE CHLORIDE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20		LFM	
	31507	O - XYLENE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM	
	31507	STYRENE	ND	4.2	4.0	4	ug/L	105	100	70-130	4.9	0-20		LFM	
	31507	TETRACHLOROETHYLENE	ND	4.8	4.7	4	ug/L	120	118	70-130	2.1	0-20		LFM	
	31507	TOLUENE	ND	4.6	4.8	4	ug/L	115	120	70-130	4.3	0-20		LFM	
	31507	TRANS - 1,2 - DICHLOROETHENE	ND	4.7	4.5	4	ug/L	118	113	70-130	4.3	0-20		LFM	
	31507	TRANS - 1,3 - DICHLOROPROPENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	31507	TRICHLOROETHENE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20		LFM	
	31507	TRICHLOROFLUOROMETHANE	ND	4.6	4.2	4	ug/L	115	105	70-130	9.1	0-20		LFM	
	31507	VINYL CHLORIDE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	

COD_150714

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	31210	CHEMICAL OXYGEN DEMAND	6	57	54	50	mg/L	102	96	70-130	6.1	0-20		LFM	
	31513	CHEMICAL OXYGEN DEMAND	7	56	53	50	mg/L	98	92	70-130	6.3	0-20		LFM	
	31517	CHEMICAL OXYGEN DEMAND	10	58	57	50	mg/L	96	94	70-130	2.1	0-20		LFM	
I150710A															
	31206	CHLORIDE	41.4	41.9		1	mg/L	50	NA	90-110	NA	0-20	IS	LFM	
	31206	FLUORIDE	ND	1.06		1	mg/L	106	NA	90-110	NA	0-20		LFM	
	31206	SULFATE	39.4	40.7		2	mg/L	65	NA	90-110	NA	0-20	IS	LFM	
	31206	TOTAL NITRATE/NITRITE	0.5	2.53		2	mg/L	102	NA	90-110	NA	0-20		LFM	
	31294	FLUORIDE	ND	1.03		1	mg/L	103	NA	90-110	NA	0-20		LFM	
	31508	CHLORIDE	33	33.4		1	mg/L	40	NA	90-110	NA	0-20	IS	LFM	
	31508	FLUORIDE	0.14	1.06		1	mg/L	92	NA	90-110	NA	0-20		LFM	
	31508	SULFATE	15.9	17.7		2	mg/L	90	NA	90-110	NA	0-20		LFM	
	31508	TOTAL NITRATE/NITRITE	ND	2.06		2	mg/L	103	NA	90-110	NA	0-20		LFM	
SIM_150713															
	31208	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.196		0.2	ug/L	98	NA	70-130	NA	0-20		LFM	
	31208	ACRYLONITRILE (SIM)	ND	0.189		0.2	ug/L	95	NA	70-130	NA	0-20		LFM	
	31208	VINYL CHLORIDE (SIM)	0.075	0.335		0.2	ug/L	130	NA	70-130	NA	0-20		LFM	
TOC_150716															
	31160	TOTAL ORGANIC CARBON	1.04	4.89		4.00	mg/L	96		70-130	NA	0-20		LFM	
	31169	TOTAL ORGANIC CARBON	1.02	4.73		4.00	mg/L	93		70-130	NA	0-20		LFM	
	31212	TOTAL ORGANIC CARBON	1.53	5.25		4.00	mg/L	93		70-130	NA	0-20		LFM	
	31514	TOTAL ORGANIC CARBON	0.94	4.65		4.00	mg/L	93		70-130	NA	0-20		LFM	
	31610	TOTAL ORGANIC CARBON	0.99	4.80		4.00	mg/L	95		70-130	NA	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-13973

Report Date: 08/07/15

Qualifier	Definition
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.
HR	High QCS recovery due to increased detector response No sample detections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
L1	The associated blank spike recovery was above laboratory acceptance limits.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	FOR LAB USE ONLY
ADDRESS: 2405 140 TH AVE. NE STE 107	ADDRESS: PO Box 5000	REF#
CITY: BELLEVUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	CHECK REGULATORY PROGRAM
ATTN: ELENA RAMIREZ	PHONE: 360-678-7338 FAX: ATTN:	<input type="checkbox"/> SAFE DRINKING WATER ACT
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#:	<input type="checkbox"/> CLEAN WATER ACT
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> M/C <input type="checkbox"/> A/E <input type="checkbox"/> EXPRES	<input type="checkbox"/> RCRA / CERCLA
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	<input type="checkbox"/> OTHER

ANALYTICAL
EDGE
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

- USE ONE LINE PER SAMPLE LOCATION.
- BE SPECIFIC IN TEST REQUESTS.
- NEW! LIST EACH METAL INDIVIDUALLY. NEW!
- CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
- ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

<input checked="" type="checkbox"/> STANDARD	HALF-TIME (50% SURCHARGE)
<input type="checkbox"/> QUICKEST (100% SURCHARGE) PHONE CALL REQ.	EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3,COD	8260B	8260SIM	Chloride, Sulfate,TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBE CONTA	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1 0715-14	Coupeville Landfill	G	GW	7/31/15	1102	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2 0715-15	Coupeville Landfill	G	GW		1202	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3 0715-16	Coupeville Landfill	G	GW		1405	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4 0715-17	Coupeville Landfill	G	GW		1512	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5 0715-18	Coupeville Landfill	G	GW		1610	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6 0715-19	Coupeville Landfill	G	GW		1650	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7 0715-20	Coupeville Landfill	G	GW		1750	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
SAMPLED BY: Sam Garber				PHONE: 425-457-3234	FAX:	EMAIL: sgarber@scsengineers.com				77		TOTAL CONTAINERS			

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL)

* W-WATER DW-DRINKING WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL
 GW-GROUND WATER S-SOIL OTHER

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Sam Garber	7/31/15	8:00	DS	7-9-15	1540

CUSTODY SEALS INTACT YES NO N/A

SAMPLE TEMP 4 °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A

SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

August 7, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005
RE: 15-13755 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Wednesday July 08, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-13755**
 Project: Coupeville Landfill

Report Date: 8/7/15

Date Received: 7/8/15

Approved by: bj,mvp,sps

Authorized by:

Sample Description: 0715-07 - Coupeville Landfill										Sample Date: 7/7/15 12:00 am		
Lab Number: 30819		Sample Comment:								Collected By: Sam Graber		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	36	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
14808-79-8	SULFATE	45	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
E-10128	TOTAL NITRATE/NITRITE	6.02	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
E-14506	ALKALINITY	489	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	489	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	687	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	0.83	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	136.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	49.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	5.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	27.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0023	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.035	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.011	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00015 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0017 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.0003 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0007 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.0003E	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-66-6	ZINC	0.0026	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-08 - Coupeville Landfill								Sample Date: 7/7/15 12:00 am			
Lab Number: 30820				Sample Comment:				Collected By: Sam Graber			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	36	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
14808-79-8	SULFATE	45	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
E-10128	TOTAL NITRATE/NITRITE	6.35	0.10	0.0206	mg/L	1.0	300.0	a	7/9/15	BJ	I150708A	
E-14506	ALKALINITY	489	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	489	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	681	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	0.92	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	135.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.02 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	49.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	27.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0019	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.0002E	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0091	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00012 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.001 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.00011 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0014	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0005 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.0003E	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0044	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0018 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. = Dilution Factor

Data Report

Sample Description: 0715-09 - Coupeville Landfill										Sample Date: 7/7/15 12:00 am		
Lab Number: 30821		Sample Comment:				Collected By: Sam Graber						
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	35	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
14808-79-8	SULFATE	24	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/9/15	BJ	I150708A	
E-14506	ALKALINITY	262	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	262	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	392	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	0.65	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	72.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.17	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	26.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	5.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	21.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.008	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0009 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00014 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0007 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.0018	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.065	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0012	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.00024 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0002 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.005	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Sample Description: 0715-10 - Coupeville Landfill										Sample Date: 7/7/15 12:00 am		
Lab Number: 30822		Sample Comment:				Collected By: Sam Graber						
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	129	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
16984-48-8	FLUORIDE	0.1	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
14808-79-8	SULFATE	138	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10128	TOTAL NITRATE/NITRITE	0.51	0.10	0.0206	mg/L	1.0	300.0	a	7/9/15	BJ	I150708A
E-14506	ALKALINITY	544	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710
NA	BICARBONATE	544	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	958	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708
E-10117	CHEMICAL OXYGEN DEMAND	12	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709
E-10195	TOTAL ORGANIC CARBON	3.25	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709
7440-70-2	CALCIUM	128.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-89-6	IRON	0.34	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-95-4	MAGNESIUM	102.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-09-7	POTASSIUM	9.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-23-5	SODIUM	46.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.105	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.0009 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	0.0005 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0011 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	0.00004 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.253	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.011	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0013	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.00033 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0026	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-11 - Coupeville Landfill								Sample Date: 7/7/15 12:00 am				
Lab Number: 30823		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	3.5	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A
16984-48-8	FLUORIDE	0.13	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A
14808-79-8	SULFATE	10.9	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A
E-10128	TOTAL NITRATE/NITRITE	2.28	0.10	0.0206	mg/L	1.0	300.0	a	7/9/15	BJ	I150708A
E-14506	ALKALINITY	202	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710
NA	BICARBONATE	202	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	254	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	1.76	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709
7440-70-2	CALCIUM	30.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-89-6	IRON	0.007 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-95-4	MAGNESIUM	29.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-09-7	POTASSIUM	2.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-23-5	SODIUM	12.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-38-2	ARSENIC	0.0017	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.013	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0015 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0002 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0015 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-12 - Coupeville Landfill	Sample Date: 7/7/15 12:00 am
Lab Number: 30824	Sample Comment:
	Collected By: Sam Graber

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	70	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
16984-48-8	FLUORIDE	0.18	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
14808-79-8	SULFATE	31	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/9/15	BJ	I150708A	
E-14506	ALKALINITY	368	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	368	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.09	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	545	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	1.92	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	76.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.56	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	54.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	7.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	35.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.043	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	0.0003 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0013 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	0.00024 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.166	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0006 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	0.00066	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.0007 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0033	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-13 - Coupeville Landfill								Sample Date: 7/7/15 12:00 am			
Lab Number: 30825		Sample Comment:						Collected By: Sam Graber			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	58	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
16984-48-8	FLUORIDE	0.16	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
14808-79-8	SULFATE	30	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150708A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/9/15	BJ	I150708A	
E-14506	ALKALINITY	373	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	373	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	527	10		mg/L	1.0	SM2540 C	a	7/10/15	MMH	TDS_150710	
E-10117	CHEMICAL OXYGEN DEMAND	22	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.78	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	79.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	52.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	6.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	33.4	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.034	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0008 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00017 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0007 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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Data Report

7439-92-1	LEAD	0.00014 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.194	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.0015	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0004 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.0005 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.005	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30825
Field ID: 0715-13
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30825
Field ID: 0715-13
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30824
Field ID: 0715-12
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	3	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30824
Field ID: 0715-12
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30823
Field ID: 0715-11
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30823
Field ID: 0715-11
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30822
Field ID: 0715-10
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30822
Field ID: 0715-10
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30821
Field ID: 0715-09
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30821
Field ID: 0715-09
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30820
Field ID: 0715-08
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.2		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30820
Field ID: 0715-08
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30819
Field ID: 0715-07
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	3	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.2		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13755**
Project: Coupeville Landfill

Lab Number: 30819
Field ID: 0715-07
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 8/7/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

Notes:

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 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150709	0 AMMONIA-N	2.66	2.50	mg/L	350.1	106	90-110	CAL	
6010B_150724C	2 CALCIUM	10.8	11	mg/L	6010B	98	90-110	CAL	
	2 IRON	1	1	mg/L	6010B	100	90-110	CAL	
	2 MAGNESIUM	11.3	11	mg/L	6010B	103	90-110	CAL	
	2 POTASSIUM	9.6	10	mg/L	6010B	96	90-110	CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110	CAL	
6020_150728	0 ANTIMONY	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	0 ARSENIC	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 BARIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 BERYLLIUM	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	0 CADMIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 CHROMIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 COBALT	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 COPPER	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	0 LEAD	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	0 MANGANESE	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 NICKEL	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 THALLIUM	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	0 VANADIUM	0.00103	0.001	mg/L	6020A	103	80-120	CAL	
	0 ZINC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
6020_150730	0 ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
I150708A	0 CHLORIDE	0.93	1.00	mg/L	300.0	93	90-110	CAL	
	0 FLUORIDE	0.95	1.00	mg/L	300.0	95	90-110	CAL	
	0 SULFATE	2	2.00	mg/L	300.0	100	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.08	2.00	mg/L	300.0	104	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_150709	0 TOTAL ORGANIC CARBON	2.56	2.50	mg/L	SM5310 B	102	90-110	CAL		
	1 TOTAL ORGANIC CARBON	106.3	100.0	mg/L	SM5310 B	106	90-110	CAL		
	2 TOTAL ORGANIC CARBON	5.01	5.00	mg/L	SM5310 B	100	90-110	CAL		
	3 TOTAL ORGANIC CARBON	0.55	0.50	mg/L	SM5310 B	110	90-110	CAL		
	4 TOTAL ORGANIC CARBON	0.19	0.15	mg/L	SM5310 B	127	90-110	CAL		MRL

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
6010B_150724C	0 CALCIUM	26.1	26	mg/L	6010B	100	85-115	LFB	
	0 IRON	0.97	1	mg/L	6010B	97	85-115	LFB	
	0 MAGNESIUM	26.3	26	mg/L	6010B	101	85-115	LFB	
	0 POTASSIUM	33.8	35	mg/L	6010B	97	85-115	LFB	
	0 SODIUM	26	26	mg/L	6010B	100	85-115	LFB	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	80-120	LFB	
	0 ARSENIC	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 BARIUM	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	80-120	LFB	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 CHROMIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 COBALT	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 COPPER	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 LEAD	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 MANGANESE	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 SELENIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 SILVER	0.019	0.020	mg/L	6020A	95	80-120	LFB	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 VANADIUM	0.036	0.040	mg/L	6020A	90	80-120	LFB	
0 ZINC	0.041	0.040	mg/L	6020A	103	80-120	LFB		
8260W_150717	0 1,1 - DICHLOROETHANE	4.4	4	ug/L	8260B	110	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,2 - DICHLOROETHANE	4.4	4	ug/L	8260B	110	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
8260W_150717	0 1,2,3 - TRICHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 1,4 - DICHLOROBENZENE (para)	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 2-BUTANONE (MEK)	10.6	10	ug/L	8260B	106	80-120	LFB	
	0 2-HEXANONE	10.6	10	ug/L	8260B	106	80-120	LFB	
	0 4-METHYL-2-PENTANONE	10.2	10	ug/L	8260B	102	80-120	LFB	
	0 ACETONE	9.9	10	ug/L	8260B	99	80-120	AH LFB	
	0 BENZENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 BROMOCHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 BROMODICHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 BROMOFORM	3.3	4	ug/L	8260B	83	80-120	LFB	
	0 BROMOMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 CARBON DISULFIDE	11.7	10	ug/L	8260B	117	80-120	LFB	
	0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 CHLOROENZENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 CIS - 1,2 - DICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 DIBROMOMETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 ETHYLBENZENE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 M,P- XYLENE	8.2	8	ug/L	8260B	103	80-120	LFB	
	0 METHYL IODIDE	9.9	10	ug/L	8260B	99	80-120	LFB	
	0 METHYLENE CHLORIDE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 O - XYLENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 STYRENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 TETRACHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 TOLUENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.8	4	ug/L	8260B	95	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150717	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.7	10	ug/L	8260B	117	80-120		LFB	
	0 TRICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 TRICHLOROFUOROMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 VINYL ACETATE	10.6	10	ug/L	8260B	106	80-120		LFB	
	0 VINYL CHLORIDE	4.2	4	ug/L	8260B	105	80-120		LFB	
8260W_150720	0 1,1 - DICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,1 - DICHLOROETHYLENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 1,2 - DICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 1,2,3 - TRICHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,4 - DICHLOROBENZENE (para)	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 2-BUTANONE (MEK)	13.3	10	ug/L	8260B	133	80-120	HR	LFB	
	0 2-HEXANONE	13.0	10	ug/L	8260B	130	80-120	HR	LFB	
	0 4-METHYL-2-PENTANONE	10.1	10	ug/L	8260B	101	80-120		LFB	
	0 ACETONE	11.5	10	ug/L	8260B	115	80-120	AH	LFB	
	0 BENZENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 BROMOCHLOROMETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 BROMODICHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 BROMOFORM	3.0	4	ug/L	8260B	75	80-120	LR	LFB	
	0 BROMOMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 CARBON DISULFIDE	10.6	10	ug/L	8260B	106	80-120		LFB	
	0 CARBON TETRACHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 CHLOROBENZENE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 CHLOROETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
0 CHLOROFORM	3.7	4	ug/L	8260B	93	80-120		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC	Comment
8260W_150720	0 CHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB		
	0 CIS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 CIS - 1,3 - DICHLOROPROPENE	3.7	4	ug/L	8260B	93	80-120	LFB		
	0 DIBROMOCHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB		
	0 DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB		
	0 ETHYLBENZENE	3.7	4	ug/L	8260B	93	80-120	LFB		
	0 M,P- XYLENE	7.2	8	ug/L	8260B	90	80-120	LFB		
	0 METHYL IODIDE	10.1	10	ug/L	8260B	101	80-120	LFB		
	0 METHYLENE CHLORIDE	3.6	4	ug/L	8260B	90	80-120	LFB		
	0 O - XYLENE	3.6	4	ug/L	8260B	90	80-120	LFB		
	0 STYRENE	3.6	4	ug/L	8260B	90	80-120	LFB		
	0 TETRACHLOROETHYLENE	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 TOLUENE	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 TRANS - 1,3 - DICHLOROPROPENE	3.4	4	ug/L	8260B	85	80-120	LFB		
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.2	10	ug/L	8260B	112	80-120	LFB		
	0 TRICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB		
0 TRICHLOROFLUOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB			
0 VINYL ACETATE	11.9	10	ug/L	8260B	119	80-120	LFB			
0 VINYL CHLORIDE	3.5	4	ug/L	8260B	88	80-120	LFB			
COD_150714	0 CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D	98	90-110	LFB		
SIM_150713	0 1,2 - DIBROMOETHANE (EDB SIM)	0.125	0.1	ug/L	8260SIM	125	70-130	L1	LFB	SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.098	0.1	ug/L	8260SIM	98	70-130	LFB	LFB	SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.106	0.1	ug/L	8260SIM	106	70-130	LFB	LFB	SIMS ANALYSIS
TOC_150709	0 TOTAL ORGANIC CARBON	0.97	1.00	mg/L	SM5310 B	97	90-110	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150710	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_150709	0 AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B_150724C	0 CALCIUM	ND		mg/L	6010B		0-0		LRB	
	0 IRON	ND		mg/L	6010B		0-0		LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	0 SODIUM	ND		mg/L	6010B		0-0		LRB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0		LRB	
	0 BARIUM	ND		mg/L	6020A		0-0		LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0		LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	0 COBALT	ND		mg/L	6020A		0-0		LRB	
	0 COPPER	ND		mg/L	6020A		0-0		LRB	
	0 LEAD	ND		mg/L	6020A		0-0		LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0		LRB	
	0 NICKEL	ND		mg/L	6020A		0-0		LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0		LRB	
	0 SILVER	ND		mg/L	6020A		0-0		LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0		LRB	
0 VANADIUM	ND		mg/L	6020A		0-0		LRB		
0 ZINC	ND		mg/L	6020A		0-0		LRB		
6020_150730	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	
COD_150709	0 CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D		0-3		LRB	
I150708A	0 CHLORIDE	ND		mg/L	300.0		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150708A	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	
TOC_150709	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150710	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150709	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B_150724C	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	ND		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8260W_150717	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2 - DICHLOROENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13624

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2 - DICHLOROENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	1 CHLORO BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
1 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755	
1 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13755	
1 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755	
8260W_150720	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLORO BENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13973

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	1 CHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 ETHYLBENZENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 M,P- XYLENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 METHYL IODIDE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 O - XYLENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 STYRENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TOLUENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
1 TRICHLOROFUOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13973	
1 VINYL ACETATE	ND		ug/L	8260B		0-0	MB	TB 15-13973	
1 VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	TB 15-13973	
COD_150709	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
COD_150714	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
SIM_150713	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-13755
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-13755
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-13755
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-13624
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-13624
2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-13624	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
TDS_150708	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
tds_150710	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	1 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
	2 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
TOC_150709	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150710	0 ALKALINITY	97.8	100	mg CaCO3/l	310.2	98	85-115	QCS	
350.1_150709	0 AMMONIA-N	2.81	2.85	mg/L	350.1	99	85-115	QCS	
6010B_150724C	0 IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	1 CALCIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	1 MAGNESIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	1 POTASSIUM	19.9	20	mg/L	6010B	100	90-110	QCS	
	1 SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BARIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CHROMIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COBALT	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 MANGANESE	0.036	0.040	mg/L	6020A	90	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
0 VANADIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS		
0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS		
6020_150730	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
COD_150709	0 CHEMICAL OXYGEN DEMAND	136	137	mg/L	SM5220 D	99	90-110	QCS	
COD_150714	0 CHEMICAL OXYGEN DEMAND	135	137	mg/L	SM5220 D	99	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-13755**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
I150708A	0 CHLORIDE	6.02	6.0	mg/L	300.0	100	90-110		QCS	
	0 FLUORIDE	3.97	4.0	mg/L	300.0	99	90-110		QCS	
	0 SULFATE	30.5	30.0	mg/L	300.0	102	90-110		QCS	
	0 TOTAL NITRATE/NITRITE	12.2	12.0	mg/L	300.0	102	90-110		QCS	
TDS_150708	0 TOTAL DISSOLVED SOLIDS (TDS)	498	500	mg/L	SM2540 C	100	80-120		QCS	
tds_150710	0 TOTAL DISSOLVED SOLIDS (TDS)	502	500	mg/L	SM2540 C	100	80-120		QCS	
	1 TOTAL DISSOLVED SOLIDS (TDS)	492	500	mg/L	SM2540 C	98	80-120		QCS	
TOC_150709	0 TOTAL ORGANIC CARBON	5.10	5.00	mg/L	SM5310 B	102	90-110		QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
Duplicate											
310.2_150710											
	30819	ALKALINITY	489	489		mg/L	0.0	0-20			DUP
	30819	BICARBONATE	489	489		mg/L	0.0	0-20			DUP
	31209	ALKALINITY	773	773		mg/L	0.0	0-20			DUP
	31209	BICARBONATE	773	773		mg/L	0.0	0-20			DUP
	31336	ALKALINITY	425	426		mg CaCO3/l	0.2	0-20			DUP
350.1_150709											
	30532	AMMONIA-N	0.12	0.11		mg/L	8.7	0-20			DUP
	30821	AMMONIA-N	0.01	0.01		mg/L	0.0	0-20			DUP
	30996	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
6010B_150724C											
	30546	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	30546	CALCIUM	57.4	57.7		mg/L	0.5	0-20			DUP
	30546	MAGNESIUM	71.0	71.4		mg/L	0.6	0-20			DUP
	30546	POTASSIUM	9.5	9.6		mg/L	1.0	0-20			DUP
	30546	SODIUM	43.2	43.5		mg/L	0.7	0-20			DUP
	30823	IRON	0.007	0.006		mg/L	15.4	0-20			DUP
	30823	CALCIUM	30.8	31.2		mg/L	1.3	0-20			DUP
	30823	MAGNESIUM	29.8	30.0		mg/L	0.7	0-20			DUP
	30823	POTASSIUM	2.3	2.3		mg/L	0.0	0-20			DUP
	30823	SODIUM	12.2	12.3		mg/L	0.8	0-20			DUP
6020_150728											
	30546	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	30546	ARSENIC	0.007	0.007		mg/L	0.0	0-20			DUP
	30546	BARIUM	0.063	0.065		mg/L	3.1	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	30546	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	30546	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	30546	CHROMIUM	0.001	0.00091	mg/L	9.4	0-20			DUP
	30546	COBALT	0.0001	0.00007	mg/L	35.3	0-20	IEV		DUP
	30546	COPPER	0.001	0.001	mg/L	0.0	0-20			DUP
	30546	LEAD	0.00008	0.00009	mg/L	11.8	0-20			DUP
	30546	MANGANESE	0.141	0.145	mg/L	2.8	0-20			DUP
	30546	NICKEL	0.001	0.001	mg/L	0.0	0-20			DUP
	30546	SELENIUM	0.00036	0.0002	mg/L	57.1	0-20	IEV		DUP
	30546	SILVER	ND	ND	mg/L	NA	0-20			DUP
	30546	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	30546	VANADIUM	0.0003	0.00025	mg/L	18.2	0-20			DUP
	30546	ZINC	0.0036	0.0033	mg/L	8.7	0-20			DUP
	30823	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	30823	ARSENIC	0.0017	0.0017	mg/L	0.0	0-20			DUP
	30823	BARIUM	0.013	0.013	mg/L	0.0	0-20			DUP
	30823	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	30823	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	30823	CHROMIUM	0.003	0.003	mg/L	0.0	0-20			DUP
	30823	COBALT	ND	ND	mg/L	NA	0-20			DUP
	30823	COPPER	0.0015	0.0015	mg/L	0.0	0-20			DUP
	30823	LEAD	ND	ND	mg/L	NA	0-20			DUP
	30823	MANGANESE	0.002	0.002	mg/L	0.0	0-20			DUP
	30823	NICKEL	0.007	0.007	mg/L	0.0	0-20			DUP
	30823	SELENIUM	0.0002	0.0002	mg/L	0.0	0-20			DUP
	30823	SILVER	ND	ND	mg/L	NA	0-20			DUP
	30823	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	30823	VANADIUM	0.004	0.004	mg/L	0.0	0-20			DUP
	30823	ZINC	0.0015	0.0011	mg/L	30.8	0-20	IEV		DUP
	31506	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	31506	ARSENIC	0.0066	0.0066	mg/L	0.0	0-20			DUP
	31506	BARIUM	0.020	0.020	mg/L	0.0	0-20			DUP
	31506	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	31506	CADMIUM	ND	ND	mg/L	NA	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	31506	CHROMIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	31506	COBALT	0.0003	0.0003	mg/L	0.0	0-20		DUP	
	31506	COPPER	0.00075	0.00064	mg/L	15.8	0-20		DUP	
	31506	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	31506	MANGANESE	0.016	0.0157	mg/L	1.9	0-20		DUP	
	31506	NICKEL	0.003	0.003	mg/L	0.0	0-20		DUP	
	31506	SELENIUM	0.0003	0.0003	mg/L	0.0	0-20		DUP	
	31506	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	31506	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	31506	VANADIUM	0.002	0.002	mg/L	0.0	0-20		DUP	
	31506	ZINC	0.002	0.0025	mg/L	22.2	0-20	IEV	DUP	
	31516	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	31516	ARSENIC	0.081	0.082	mg/L	1.2	0-20		DUP	
	31516	BARIUM	0.039	0.039	mg/L	0.0	0-20		DUP	
	31516	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	CHROMIUM	0.015	0.015	mg/L	0.0	0-20		DUP	
	31516	COBALT	0.0004	0.0004	mg/L	0.0	0-20		DUP	
	31516	COPPER	0.355	0.359	mg/L	1.1	0-20		DUP	
	31516	LEAD	0.031	0.032	mg/L	3.2	0-20		DUP	
	31516	MANGANESE	0.128	0.127	mg/L	0.8	0-20		DUP	
	31516	NICKEL	0.0098	0.0097	mg/L	1.0	0-20		DUP	
	31516	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	31516	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
COD_150709										
	30268	CHEMICAL OXYGEN DEMAND	46	48	mg/L	4.3	0-20		DUP	
	30824	CHEMICAL OXYGEN DEMAND	ND	ND	mg/L	NA	0-20		DUP	
COD_150714										
	31210	CHEMICAL OXYGEN DEMAND	6	7	mg/L	15.4	0-20		DUP	
	31513	CHEMICAL OXYGEN DEMAND	7	6	mg/L	15.4	0-20		DUP	
	31517	CHEMICAL OXYGEN DEMAND	10	11	mg/L	9.5	0-20		DUP	
I150708A										

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	30603	TOTAL NITRATE/NITRITE	0.3	0.29		mg/L	3.4	0-20		DUP	
	30739	FLUORIDE	0.26	0.26		mg/L	0.0	0-20		DUP	
	30825	CHLORIDE	58	58		mg/L	0.0	0-20		DUP	
	30825	FLUORIDE	0.16	0.16		mg/L	0.0	0-20		DUP	
	30825	SULFATE	30	30		mg/L	0.0	0-20		DUP	
	30825	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
TDS_150708											
	30546	TOTAL DISSOLVED SOLIDS (TDS)	552	569		mg/L	3.0	0-10		DUP	
	30705	TOTAL DISSOLVED SOLIDS (TDS)	204	201		mg/L	1.5	0-10		DUP	
TDS_150710											
	31208	TOTAL DISSOLVED SOLIDS (TDS)	726	718		mg/L	1.1	0-10		DUP	
	31328	TOTAL DISSOLVED SOLIDS (TDS)	510	510		mg/L	0.0	0-10		DUP	
TOC_150709											
	29482	TOTAL ORGANIC CARBON	22.34	20.62		mg/L	8.0	0-20		DUP	
	30009	TOTAL ORGANIC CARBON	0.17	0.20		mg/L	16.2	0-20		DUP	
	30546	TOTAL ORGANIC CARBON	2.00	1.97		mg/L	1.5	0-20		DUP	
	30820	TOTAL ORGANIC CARBON	0.92	0.86		mg/L	6.7	0-20		DUP	
	31073	TOTAL ORGANIC CARBON	0.99	0.97		mg/L	2.0	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150710															
	30819	ALKALINITY	489	580	579	250	mg/L	36	36	70-130	1.1	0-20	IM	LFM	
	30819	BICARBONATE	489	580	579	250	mg/L	36	36	70-130	1.1	0-20	IM	LFM	
	31209	ALKALINITY	773	874	869	250	mg/L	40	38	70-130	5.1	0-20	IM	LFM	
	31209	BICARBONATE	773	874	869	250	mg/L	40	38	70-130	5.1	0-20	IM	LFM	
	31336	ALKALINITY	425	647	644	250	mg CaCO3/89	80	88	70-130	1.4	0-20		LFM	
350.1_150709															
	30532	AMMONIA-N	0.12	1.18	1.18	1.00	mg/L	106	106	70-130	0.0	0-20		LFM	
	30821	AMMONIA-N	0.01	1.08	1.06	1.00	mg/L	107	105	70-130	1.9	0-20		LFM	
	30996	AMMONIA-N	ND	1.08	1.07	1.00	mg/L	108	107	70-130	0.9	0-20		LFM	
6010B_150724C															
	30546	IRON	0.14	1.10	1.12	1.00	mg/L	96	98	75-125	2.1	0-20		LFM	
	30546	CALCIUM	57.4	82.3	84.1	26.0	mg/L	96	103	75-125	7.0	0-20		LFM	
	30546	MAGNESIUM	71.0	95.3	97.9	26.0	mg/L	93	103	75-125	10.2	0-20		LFM	
	30546	POTASSIUM	9.5	43.5	44.6	35.0	mg/L	97	100	75-125	3.2	0-20		LFM	
	30823	IRON	0.007	0.054		0.050	mg/L	94		75-125	NA	0-20		LFM	
	30823	CALCIUM	30.8	56.2		26.0	mg/L	98		75-125	NA	0-20		LFM	
	30823	MAGNESIUM	29.8	55.1		26.0	mg/L	97		75-125	NA	0-20		LFM	
	30823	POTASSIUM	2.3	36.6		35.0	mg/L	98		75-125	NA	0-20		LFM	
6020_150728															
	30546	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20		LFM	
	30546	ARSENIC	0.007	0.058		0.050	mg/L	102		75-125	NA	0-20		LFM	
	30546	BARIUM	0.063	0.112		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	BERYLLIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20		LFM	
	30546	CADMIUM	ND	0.050		0.050	mg/L	100		75-125	NA	0-20		LFM	
	30546	CHROMIUM	0.001	0.049		0.050	mg/L	96		75-125	NA	0-20		LFM	
	30546	COBALT	0.0001	0.047		0.050	mg/L	94		75-125	NA	0-20		LFM	
	30546	COPPER	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	LEAD	0.00008	0.048		0.050	mg/L	96		75-125	NA	0-20		LFM	
	30546	MANGANESE	0.141	0.187		0.050	mg/L	92		75-125	NA	0-20		LFM	
	30546	NICKEL	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	SELENIUM	0.00036	0.050		0.050	mg/L	99		75-125	NA	0-20		LFM	
	30546	SILVER	ND	0.024		0.025	mg/L	96		75-125	NA	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	30546	THALLIUM	ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	30546	VANADIUM	0.0003	0.048		0.050	mg/L	95			75-125	NA	0-20		LFM	
	30546	ZINC	0.0036	0.053		0.050	mg/L	99			75-125	NA	0-20		LFM	
	30823	ANTIMONY	ND	1.065		1.000	mg/L	107			75-125	NA	0-20		LFM	
	30823	ARSENIC	0.0017	0.994		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	BARIUM	0.013	0.993		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	BERYLLIUM	ND	0.992		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CADMIUM	ND	0.990		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CHROMIUM	0.003	0.946		1.000	mg/L	94			75-125	NA	0-20		LFM	
	30823	COBALT	ND	1.015		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	COPPER	0.0015	0.959		1.000	mg/L	96			75-125	NA	0-20		LFM	
	30823	LEAD	ND	0.989		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	MANGANESE	0.002	1.004		1.000	mg/L	100			75-125	NA	0-20		LFM	
	30823	NICKEL	0.007	1.001		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	SELENIUM	0.0002	0.982		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	SILVER	ND	0.253		0.500	mg/L	51			75-125	NA	0-20	IM	LFM	
	30823	THALLIUM	ND	0.948		1.000	mg/L	95			75-125	NA	0-20		LFM	
	30823	VANADIUM	0.004	1.020		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	ZINC	0.0015	1.000		1.000	mg/L	100			75-125	NA	0-20		LFM	
	31506	ANTIMONY	ND	0.056		0.050	mg/L	112			75-125	NA	0-20		LFM	
	31506	ARSENIC	0.0066	0.058		0.050	mg/L	103			75-125	NA	0-20		LFM	
	31506	BARIUM	0.020	0.070		0.050	mg/L	100			75-125	NA	0-20		LFM	
	31506	BERYLLIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	CADMIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	CHROMIUM	0.001	0.050		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	COBALT	0.0003	0.049		0.050	mg/L	97			75-125	NA	0-20		LFM	
	31506	COPPER	0.00075	0.051		0.050	mg/L	101			75-125	NA	0-20		LFM	
	31506	LEAD	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	MANGANESE	0.016	0.0635		0.050	mg/L	95			75-125	NA	0-20		LFM	
	31506	NICKEL	0.003	0.054		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	SELENIUM	0.0003	0.051		0.050	mg/L	101			75-125	NA	0-20		LFM	
	31506	SILVER	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	31506	THALLIUM	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	VANADIUM	0.002	0.049		0.050	mg/L	94			75-125	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	31506	ZINC	0.002	0.053		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31516	ANTIMONY	ND	0.046		0.050	mg/L	92			75-125	NA	0-20		LFM	
	31516	ARSENIC	0.081	0.116		0.050	mg/L	70			75-125	NA	0-20	IM	LFM	
	31516	BARIIUM	0.039	0.077		0.050	mg/L	76			75-125	NA	0-20		LFM	
	31516	BERYLLIUM	ND	0.043		0.050	mg/L	86			75-125	NA	0-20		LFM	
	31516	CADMIUM	ND	0.043		0.050	mg/L	86			75-125	NA	0-20		LFM	
	31516	CHROMIUM	0.015	0.052		0.050	mg/L	74			75-125	NA	0-20	IM	LFM	
	31516	COBALT	0.0004	0.041		0.050	mg/L	81			75-125	NA	0-20		LFM	
	31516	COPPER	0.355	0.357		0.050	mg/L	4			75-125	NA	0-20	IS	LFM	
	31516	LEAD	0.031	0.069		0.050	mg/L	76			75-125	NA	0-20		LFM	
	31516	MANGANESE	0.128	0.147		0.050	mg/L	38			75-125	NA	0-20	IM	LFM	
	31516	NICKEL	0.0098	0.051		0.050	mg/L	82			75-125	NA	0-20		LFM	
	31516	SELENIUM	ND	0.039		0.050	mg/L	78			75-125	NA	0-20		LFM	
	31516	SILVER	ND	0.021		0.025	mg/L	84			75-125	NA	0-20		LFM	
	31516	THALLIUM	ND	0.042		0.050	mg/L	84			75-125	NA	0-20		LFM	
	31516	VANADIUM	ND	0.040		0.050	mg/L	80			75-125	NA	0-20		LFM	
8260W_150717																
	30546	1,1 - DICHLOROETHANE	ND	4.3		4	ug/L	108	NA		70-130	NA	0-20		LFM	
	30546	1,1 - DICHLOROETHYLENE	ND	4.0		4	ug/L	100	NA		70-130	NA	0-20		LFM	
	30546	1,1,1 - TRICHLOROETHANE	ND	4.4		4	ug/L	110	NA		70-130	NA	0-20		LFM	
	30546	1,1,1,2 - TETRACHLOROETHANE	ND	4.0		4	ug/L	100	NA		70-130	NA	0-20		LFM	
	30546	1,1,2 - TRICHLOROETHANE	ND	3.8		4	ug/L	95	NA		70-130	NA	0-20		LFM	
	30546	1,1,2,2 - TETRACHLOROETHANE	ND	4.1		4	ug/L	103	NA		70-130	NA	0-20		LFM	
	30546	1,2 - DICHLOROBENZENE (ortho)	ND	3.7		4	ug/L	93	NA		70-130	NA	0-20		LFM	
	30546	1,2 - DICHLOROETHANE	ND	4.2		4	ug/L	105	NA		70-130	NA	0-20		LFM	
	30546	1,2 - DICHLOROPROPANE	ND	4.3		4	ug/L	108	NA		70-130	NA	0-20		LFM	
	30546	1,2,3 - TRICHLOROPROPANE	ND	4.0		4	ug/L	100	NA		70-130	NA	0-20		LFM	
	30546	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.7		4	ug/L	93	NA		70-130	NA	0-20		LFM	
	30546	1,4 - DICHLOROBENZENE (para)	ND	3.9		4	ug/L	98	NA		70-130	NA	0-20		LFM	
	30546	BENZENE	ND	4.2		4	ug/L	105	NA		70-130	NA	0-20		LFM	
	30546	BROMOCHLOROMETHANE	ND	4.0		4	ug/L	100	NA		70-130	NA	0-20		LFM	
	30546	BROMODICHLOROMETHANE	ND	3.4		4	ug/L	85	NA		70-130	NA	0-20		LFM	
	30546	BROMOFORM	ND	3.1		4	ug/L	78	NA		70-130	NA	0-20		LFM	
	30546	BROMOMETHANE	ND	5.0		4	ug/L	125	NA		70-130	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	30546	CARBON TETRACHLORIDE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	CHLOROBENZENE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	CHLOROETHANE	ND	4.7		4	ug/L	118	NA	70-130	NA	0-20		LFM	
	30546	CHLOROFORM	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	CHLOROMETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	30546	CIS - 1,2 - DICHLOROETHENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	CIS - 1,3 - DICHLOROPROPENE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20		LFM	
	30546	DIBROMOCHLOROMETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	30546	DIBROMOMETHANE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	ETHYLBENZENE	ND	4.1		4	ug/L	103	NA	70-130	NA	0-20		LFM	
	30546	M,P- XYLENE	ND	8.2		8	ug/L	103	NA	70-130	NA	0-20		LFM	
	30546	METHYLENE CHLORIDE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	O - XYLENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	STYRENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	TETRACHLOROETHYLENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	TOLUENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	TRANS - 1,2 - DICHLOROETHENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	TRANS - 1,3 - DICHLOROPROPENE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	30546	TRICHLOROETHENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	TRICHLOROFLUOROMETHANE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	VINYL CHLORIDE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
8260W_150720															
	31507	1,1 - DICHLOROETHANE	ND	5.0	4.6	4	ug/L	125	115	70-130	8.3	0-20		LFM	
	31507	1,1 - DICHLOROETHYLENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	31507	1,1,1 - TRICHLOROETHANE	ND	4.8	4.6	4	ug/L	120	115	70-130	4.3	0-20		LFM	
	31507	1,1,1,2 - TETRACHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20		LFM	
	31507	1,1,2 - TRICHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20		LFM	
	31507	1,1,2,2 - TETRACHLOROETHANE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	31507	1,2 - DICHLOROBENZENE (ortho)	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20		LFM	
	31507	1,2 - DICHLOROETHANE	ND	4.9	4.7	4	ug/L	123	118	70-130	4.2	0-20		LFM	
	31507	1,2 - DICHLOROPROPANE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20		LFM	
	31507	1,2,3 - TRICHLOROPROPANE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	31507	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.6	3.5	4	ug/L	90	88	70-130	2.8	0-20		LFM	
	31507	1,4 - DICHLOROBENZENE (para)	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0	0-20		LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	31507	BENZENE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20		LFM	
	31507	BROMOCHLOROMETHANE	ND	4.6	4.5	4	ug/L	115	113	70-130	2.2	0-20		LFM	
	31507	BROMODICHLOROMETHANE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM	
	31507	BROMOFORM	ND	3.4	3.2	4	ug/L	85	80	70-130	6.1	0-20		LFM	
	31507	BROMOMETHANE	ND	1.6	1.6	4	ug/L	40	40	70-130	0.0	0-20	M2	LFM	
	31507	CARBON TETRACHLORIDE	ND	4.9	4.7	4	ug/L	123	118	70-130	4.2	0-20		LFM	
	31507	CHLOROBENZENE	ND	4.4	4.4	4	ug/L	110	110	70-130	0.0	0-20		LFM	
	31507	CHLOROETHANE	ND	4.9	4.5	4	ug/L	123	113	70-130	8.5	0-20		LFM	
	31507	CHLOROFORM	ND	4.7	4.5	4	ug/L	118	113	70-130	4.3	0-20		LFM	
	31507	CHLOROMETHANE	ND	4.1	4.2	4	ug/L	103	105	70-130	2.4	0-20		LFM	
	31507	CIS - 1,2 - DICHLOROETHENE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20		LFM	
	31507	CIS - 1,3 - DICHLOROPROPENE	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20		LFM	
	31507	DIBROMOCHLOROMETHANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5	0-20		LFM	
	31507	DIBROMOMETHANE	ND	4.6	4.4	4	ug/L	115	110	70-130	4.4	0-20		LFM	
	31507	ETHYLBENZENE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20		LFM	
	31507	M,P- XYLENE	ND	8.5	8.5	8	ug/L	106	106	70-130	0.0	0-20		LFM	
	31507	METHYLENE CHLORIDE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20		LFM	
	31507	O - XYLENE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM	
	31507	STYRENE	ND	4.2	4.0	4	ug/L	105	100	70-130	4.9	0-20		LFM	
	31507	TETRACHLOROETHYLENE	ND	4.8	4.7	4	ug/L	120	118	70-130	2.1	0-20		LFM	
	31507	TOLUENE	ND	4.6	4.8	4	ug/L	115	120	70-130	4.3	0-20		LFM	
	31507	TRANS - 1,2 - DICHLOROETHENE	ND	4.7	4.5	4	ug/L	118	113	70-130	4.3	0-20		LFM	
	31507	TRANS - 1,3 - DICHLOROPROPENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	31507	TRICHLOROETHENE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20		LFM	
	31507	TRICHLOROFLUOROMETHANE	ND	4.6	4.2	4	ug/L	115	105	70-130	9.1	0-20		LFM	
	31507	VINYL CHLORIDE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
COD_150709															
	30268	CHEMICAL OXYGEN DEMAND	46	95	94	50	mg/L	98	96	70-130	2.1	0-20		LFM	
	30824	CHEMICAL OXYGEN DEMAND	5	55	57	50	mg/L	100	104	70-130	3.9	0-20		LFM	
COD_150714															
	31210	CHEMICAL OXYGEN DEMAND	6	57	54	50	mg/L	102	96	70-130	6.1	0-20		LFM	
	31513	CHEMICAL OXYGEN DEMAND	7	56	53	50	mg/L	98	92	70-130	6.3	0-20		LFM	
	31517	CHEMICAL OXYGEN DEMAND	10	58	57	50	mg/L	96	94	70-130	2.1	0-20		LFM	

I150708A

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	30603	TOTAL NITRATE/NITRITE	0.3	2.38		2.00	mg/L	104	NA	90-110	NA	0-20			LFM
	30739	FLUORIDE	0.26	1.22		1.00	mg/L	96	NA	90-110	NA	0-20			LFM
	30825	FLUORIDE	0.16	1.12		1.00	mg/L	96	NA	90-110	NA	0-20			LFM
	30825	TOTAL NITRATE/NITRITE	ND	2.04		2.00	mg/L	102	NA	90-110	NA	0-20			LFM
SIM_150713															
	31208	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.196		0.2	ug/L	98	NA	70-130	NA	0-20			LFM
	31208	ACRYLONITRILE (SIM)	ND	0.189		0.2	ug/L	95	NA	70-130	NA	0-20			LFM
	31208	VINYL CHLORIDE (SIM)	0.075	0.335		0.2	ug/L	130	NA	70-130	NA	0-20			LFM
TOC_150709															
	29482	TOTAL ORGANIC CARBON	22.34	24.65		4.00	mg/L	58		70-130	NA	0-20	IS		LFM
	30009	TOTAL ORGANIC CARBON	0.17	4.30		4.00	mg/L	103		70-130	NA	0-20			LFM
	30546	TOTAL ORGANIC CARBON	2.00	6.02		4.00	mg/L	101		70-130	NA	0-20			LFM
	30820	TOTAL ORGANIC CARBON	0.92	4.72		4.00	mg/L	95		70-130	NA	0-20			LFM
	31073	TOTAL ORGANIC CARBON	0.99	5.18		4.00	mg/L	105		70-130	NA	0-20			LFM

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-13755

Report Date: 08/07/15

Qualifier	Definition
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.
HR	High QCS recovery due to increased detector response No sample detections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
L1	The associated blank spike recovery was above laboratory acceptance limits.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1 OF 1



REPORT TO: **SCS ENGINEERS**
 ADDRESS: **2405 140TH AVE. NE STE 107**
 CITY: **BELLEVUE** STATE: **WA** ZIP: **98005**
 ATTN: **ELENA RAMIREZ**
 PHONE: **425-746-4600** FAX: **425-746-6747**
 EMAIL: **eramirez@scsengineers.com**
 PROJECT NAME: **COUPEVILLE LANDFILL**

BILL TO: **ISLAND COUNTY SOLID WASTE**
 ADDRESS: **PO Box 5000**
 CITY: **Coupeville** STATE: **WA** ZIP: **98239**
 PHONE: **360-678-7338** FAX:
 P.O.#:
 VISA M/C A/E EXPIRES /

FOR LAB USE ONLY
 REF#
CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

15-13755
 30819 - 30825

- INSTRUCTIONS**
1. USE ONE LINE PER SAMPLE LOCATION.
 2. BE SPECIFIC IN TEST REQUESTS.
 3. NEW LIST EACH METAL INDIVIDUALLY. NEW
 4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
 5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) (PHONE CALL REQ. EMERGENCY (PHONE CALL REQUIRED))

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	ANALYSIS REQUESTED		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
						Total Metals	NO2/NO3, NH3, COD		
1 0715-07	Coupeville Landfill	G	GW	7/7/15	1612	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2 0715-08	Coupeville Landfill	G	GW		1012	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3 0715-09	Coupeville Landfill	G	GW		1143	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4 0715-10	Coupeville Landfill	G	GW		1435	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5 0715-11	Coupeville Landfill	G	GW		1530	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6 0715-12	Coupeville Landfill	G	GW		1655	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7 0715-13	Coupeville Landfill	G	GW		1755	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
8 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		
9 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		
10 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLED BY: Sam Guber PHONE: 425-457-3234 FAX:

EMAIL: sguber@scsengineers.com

▶ TOTAL CONTAINERS 77

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) *W-WATER
 DW-DRINKING WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL
 S-SOIL OTHER

RELINQUISHED BY: Sam Guber DATE: 7/8/15 TIME: 800 RECEIVED BY: D DATE: 7-8-15 TIME: 1230

CUSTODY SEALS INTACT YES NO N/A
 SAMPLE TEMP 2.5 °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

August 7, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-13624 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Tuesday July 07, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS
QA Officer

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-13624**
 Project: Coupeville Landfill

Report Date: 7/29/15

Date Received: 7/7/15
 Approved by: bj,mvp,sps
 Authorized by:


 Patrick Miller, MS
 QA Officer

Sample Description: 0715-01 - Coupeville Landfill										Sample Date: 7/7/15 11:08 am		
Lab Number: 30546		Sample Comment:					Collected By: Sam Graber					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	67.3	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
16984-48-8	FLUORIDE	0.16	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
14808-79-8	SULFATE	33.5	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-14506	ALKALINITY	408	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	408	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.14	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	552	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	2.00	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	57.4	0.50	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	71.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	9.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	43.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.063	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0001 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.001 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.00008 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.141	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.00036 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.0003 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0036	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-02 - Coupeville Landfill								Sample Date: 7/7/15 12:10 pm			
Lab Number: 30547				Sample Comment:				Collected By: Sam Gratzner			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	21.9	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
16984-48-8	FLUORIDE	0.17	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
14808-79-8	SULFATE	21.4	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-14506	ALKALINITY	309	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	309	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.03	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	394	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	0.85	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	58.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.17	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	39.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	6.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	24.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	ND	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.024	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0007 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0016 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.00012 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.141	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.006	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	0.0002 J	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	0.00006 J	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.00019 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.022	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0715-03 - Coupeville Landfill										Sample Date: 7/7/15 2:06 pm		
Lab Number: 30548		Sample Comment:					Collected By: Sam Gratzner					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	109	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
16984-48-8	FLUORIDE	0.1	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
14808-79-8	SULFATE	55.4	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-14506	ALKALINITY	615	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	615	10.0		mg CaCO3/L	2.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.02	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	846	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	2.21	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	127.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	97.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	10.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	45.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.084	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0009 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0004 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0013 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.251	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728	
7440-02-0	NICKEL	0.011	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0009 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0015	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.002 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Sample Description: 0715-04 - Coupeville Landfill										Sample Date: 7/7/15 3:15 pm		
Lab Number: 30549		Sample Comment:					Collected By: Sam Gratzner					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	41.4	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
16984-48-8	FLUORIDE	0.16	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
14808-79-8	SULFATE	35.1	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A
E-14506	ALKALINITY	311	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710
NA	BICARBONATE	311	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	431	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709
E-10195	TOTAL ORGANIC CARBON	0.92	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709
7440-70-2	CALCIUM	68.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-89-6	IRON	0.04 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-95-4	MAGNESIUM	42.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-09-7	POTASSIUM	6.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-23-5	SODIUM	26.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.027	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.00097 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0012 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.00036 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0018 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-05 - Coupeville Landfill								Sample Date: 7/7/15 5:05 pm			
Lab Number: 30550		Sample Comment:						Collected By: Sam Gratzner			

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	59.8	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
16984-48-8	FLUORIDE	0.16	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
14808-79-8	SULFATE	38.6	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-10128	TOTAL NITRATE/NITRITE	1.16	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-14506	ALKALINITY	319	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	319	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	486	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

E-10195	TOTAL ORGANIC CARBON	1.51	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709
7440-70-2	CALCIUM	73.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-89-6	IRON	0.08	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7439-95-4	MAGNESIUM	47.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-09-7	POTASSIUM	5.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-23-5	SODIUM	31.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.023	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.009	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	0.00012 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0017 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	0.0002 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0014	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0024 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Sample Description: 0715-06 - Coupeville Landfill								Sample Date: 7/7/15 6:07 pm				
Lab Number: 30551				Sample Comment:				Collected By: Sam Gratzler				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment

16887-00-6	CHLORIDE	64.3	0.10	0.0211	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
16984-48-8	FLUORIDE	0.18	0.10	0.0054	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
14808-79-8	SULFATE	27	0.20	0.0174	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/8/15	BJ	I150707A	
E-14506	ALKALINITY	388	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
NA	BICARBONATE	388	5.00		mg CaCO3/L	1.0	310.2	a	7/10/15	SPS	310.2_150710	
7664-41-7	AMMONIA-N	0.03	0.01	0.0031	mg/L	1.0	350.1	a	7/9/15	SPS	350.1_150709	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	532	10		mg/L	1.0	SM2540 C	a	7/8/15	MMH	TDS_150708	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/9/15	ANP	COD_150709	
E-10195	TOTAL ORGANIC CARBON	1.70	0.15	0.05	mg/L	1.0	SM5310 B	a	7/10/15	BJ	TOC_150709	
7440-70-2	CALCIUM	71.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-89-6	IRON	1.18	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7439-95-4	MAGNESIUM	61.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-09-7	POTASSIUM	7.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-23-5	SODIUM	34.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/24/15	BJ	6010B_150724C	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

7440-38-2	ARSENIC	0.0096	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-39-3	BARIUM	0.047	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-48-4	COBALT	0.00075 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-50-8	COPPER	0.0028	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-92-1	LEAD	0.00033 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7439-96-5	MANGANESE	0.204	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/24/15	MVP	6020_150728
7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0003 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.0003	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.0052	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30551
Field ID: 0715-06
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

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D.F. - Dilution Factor.



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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30551
Field ID: 0715-06
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30550
Field ID: 0715-05
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30550
Field ID: 0715-05
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30549
Field ID: 0715-04
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	0.4	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30549
Field ID: 0715-04
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30548
Field ID: 0715-03
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30548
Field ID: 0715-03
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.028		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30547
Field ID: 0715-02
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30547
Field ID: 0715-02
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30546
Field ID: 0715-01
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1


Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-13624**
Project: Coupeville Landfill

Lab Number: 30546
Field ID: 0715-01
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/7/15
Extraction Date: 7/13/15
Extraction Method: 5030B

Report Date: 7/29/15
Date Analyzed: 7/13/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_150713
Approved By: hy,pdm

Authorized by:


Patrick Miller, MS
QA Officer

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150709	0 AMMONIA-N	2.66	2.50	mg/L	350.1	106	90-110	CAL	
6010B_150724C	2 CALCIUM	10.8	11	mg/L	6010B	98	90-110	CAL	
	2 IRON	1	1	mg/L	6010B	100	90-110	CAL	
	2 MAGNESIUM	11.3	11	mg/L	6010B	103	90-110	CAL	
	2 POTASSIUM	9.6	10	mg/L	6010B	96	90-110	CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110	CAL	
6020_150728	0 ANTIMONY	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	0 ARSENIC	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 BARIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 BERYLLIUM	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	0 CADMIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 CHROMIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 COBALT	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 COPPER	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	0 LEAD	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	0 MANGANESE	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 NICKEL	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 THALLIUM	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	0 VANADIUM	0.00103	0.001	mg/L	6020A	103	80-120	CAL	
	0 ZINC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
I150707A	0 CHLORIDE	0.99	1	mg/L	300.0	99	90-110	CAL	
	0 FLUORIDE	0.95	1	mg/L	300.0	95	90-110	CAL	
	0 SULFATE	1.98	2	mg/L	300.0	99	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.01	2	mg/L	300.0	101	90-110	CAL	
TOC_150709	0 TOTAL ORGANIC CARBON	2.56	2.50	mg/L	SM5310 B	102	90-110	CAL	
	1 TOTAL ORGANIC CARBON	106.3	100.0	mg/L	SM5310 B	106	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_150709	2 TOTAL ORGANIC CARBON	5.01	5.00	mg/L	SM5310 B	100	90-110	CAL		
	3 TOTAL ORGANIC CARBON	0.55	0.50	mg/L	SM5310 B	110	90-110	CAL		
	4 TOTAL ORGANIC CARBON	0.19	0.15	mg/L	SM5310 B	127	90-110	CAL		MRL

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
6010B_150724C	0 CALCIUM	26.1	26	mg/L	6010B	100	85-115	LFB	
	0 IRON	0.97	1	mg/L	6010B	97	85-115	LFB	
	0 MAGNESIUM	26.3	26	mg/L	6010B	101	85-115	LFB	
	0 POTASSIUM	33.8	35	mg/L	6010B	97	85-115	LFB	
	0 SODIUM	26	26	mg/L	6010B	100	85-115	LFB	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	80-120	LFB	
	0 ARSENIC	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 BARIUM	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	80-120	LFB	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 CHROMIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 COBALT	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 COPPER	0.040	0.040	mg/L	6020A	100	80-120	LFB	
	0 LEAD	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 MANGANESE	0.037	0.040	mg/L	6020A	93	80-120	LFB	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	80-120	LFB	
	0 SELENIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 SILVER	0.019	0.020	mg/L	6020A	95	80-120	LFB	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB	
	0 VANADIUM	0.036	0.040	mg/L	6020A	90	80-120	LFB	
0 ZINC	0.041	0.040	mg/L	6020A	103	80-120	LFB		
8260W_150717	0 1,1 - DICHLOROETHANE	4.4	4	ug/L	8260B	110	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,2 - DICHLOROETHANE	4.4	4	ug/L	8260B	110	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
8260W_150717	0 1,2,3 - TRICHLOROPROPANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 1,4 - DICHLOROBENZENE (para)	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 2-BUTANONE (MEK)	10.6	10	ug/L	8260B	106	80-120	LFB	
	0 2-HEXANONE	10.6	10	ug/L	8260B	106	80-120	LFB	
	0 4-METHYL-2-PENTANONE	10.2	10	ug/L	8260B	102	80-120	LFB	
	0 ACETONE	9.9	10	ug/L	8260B	99	80-120	AH LFB	
	0 BENZENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 BROMOCHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 BROMODICHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 BROMOFORM	3.3	4	ug/L	8260B	83	80-120	LFB	
	0 BROMOMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 CARBON DISULFIDE	11.7	10	ug/L	8260B	117	80-120	LFB	
	0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 CHLOROENZENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROMETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 CIS - 1,2 - DICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 DIBROMOMETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 ETHYLBENZENE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 M,P- XYLENE	8.2	8	ug/L	8260B	103	80-120	LFB	
	0 METHYL IODIDE	9.9	10	ug/L	8260B	99	80-120	LFB	
	0 METHYLENE CHLORIDE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 O - XYLENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 STYRENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 TETRACHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 TOLUENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.8	4	ug/L	8260B	95	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150717	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.7	10	ug/L	8260B	117	80-120	LFB		
	0 TRICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120	LFB		
	0 TRICHLOROFLUOROMETHANE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 VINYL ACETATE	10.6	10	ug/L	8260B	106	80-120	LFB		
	0 VINYL CHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB		
SIM_150713	0 1,2 - DIBROMOETHANE (EDB SIM)	0.125	0.1	ug/L	8260SIM	125	70-130	L1	LFB	SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.098	0.1	ug/L	8260SIM	98	70-130		LFB	SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.106	0.1	ug/L	8260SIM	106	70-130		LFB	SIMS ANALYSIS
TOC_150709	0 TOTAL ORGANIC CARBON	0.97	1.00	mg/L	SM5310 B	97	90-110		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150710	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_150709	0 AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B_150724C	0 CALCIUM	ND		mg/L	6010B		0-0	LRB	
	0 IRON	ND		mg/L	6010B		0-0	LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	0 SODIUM	ND		mg/L	6010B		0-0	LRB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
0 VANADIUM	ND		mg/L	6020A		0-0	LRB		
0 ZINC	ND		mg/L	6020A		0-0	LRB		
COD_150709	0 CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D		0-3	LRB	
I150707A	0 CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I150707A	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	
TOC_150709	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_150710	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_150709	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B_150724C	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	ND		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8260W_150717	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-13624

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13624

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2 - DICHLOROETHANE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,4 - DICHLOROETHANE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	1 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
1 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755	
1 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13755	
1 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755	
COD_150709	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D	0-3		MB	
SIM_150713	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13755
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13755
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13755
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13624
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13624
	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-13624

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
TDS_150708	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3		MB	
TOC_150709	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
310.2_150710	0 ALKALINITY	97.8	100	mg CaCO3/l	310.2	98	85-115	QCS	
350.1_150709	0 AMMONIA-N	2.81	2.85	mg/L	350.1	99	85-115	QCS	
6010B_150724C	0 IRON	2.05	2	mg/L	6010B	103	90-110	QCS	
	1 CALCIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	1 MAGNESIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
	1 POTASSIUM	19.9	20	mg/L	6010B	100	90-110	QCS	
	1 SODIUM	20.2	20	mg/L	6010B	101	90-110	QCS	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BARIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CHROMIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COBALT	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 MANGANESE	0.036	0.040	mg/L	6020A	90	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 VANADIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS		
COD_150709	0 CHEMICAL OXYGEN DEMAND	136	137	mg/L	SM5220 D	99	90-110	QCS	
TDS_150708	0 TOTAL DISSOLVED SOLIDS (TDS)	498	500	mg/L	SM2540 C	100	80-120	QCS	
TOC_150709	0 TOTAL ORGANIC CARBON	5.10	5.00	mg/L	SM5310 B	102	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-13624**

Report Date: 08/07/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC	Comment
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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
Duplicate											
310.2_150710											
	30819	ALKALINITY	489	489		mg/L	0.0	0-20			DUP
	30819	BICARBONATE	489	489		mg/L	0.0	0-20			DUP
	31209	ALKALINITY	773	773		mg/L	0.0	0-20			DUP
	31209	BICARBONATE	773	773		mg/L	0.0	0-20			DUP
	31336	ALKALINITY	425	426		mg CaCO3/l	0.2	0-20			DUP
350.1_150709											
	30532	AMMONIA-N	0.12	0.11		mg/L	8.7	0-20			DUP
	30821	AMMONIA-N	0.01	0.01		mg/L	0.0	0-20			DUP
	30996	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
6010B_150724C											
	30546	IRON	0.14	0.14		mg/L	0.0	0-20			DUP
	30546	CALCIUM	57.4	57.7		mg/L	0.5	0-20			DUP
	30546	MAGNESIUM	71.0	71.4		mg/L	0.6	0-20			DUP
	30546	POTASSIUM	9.5	9.6		mg/L	1.0	0-20			DUP
	30546	SODIUM	43.2	43.5		mg/L	0.7	0-20			DUP
	30823	IRON	0.007	0.006		mg/L	15.4	0-20			DUP
	30823	CALCIUM	30.8	31.2		mg/L	1.3	0-20			DUP
	30823	MAGNESIUM	29.8	30.0		mg/L	0.7	0-20			DUP
	30823	POTASSIUM	2.3	2.3		mg/L	0.0	0-20			DUP
	30823	SODIUM	12.2	12.3		mg/L	0.8	0-20			DUP
6020_150728											
	30546	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	30546	ARSENIC	0.007	0.007		mg/L	0.0	0-20			DUP
	30546	BARIUM	0.063	0.065		mg/L	3.1	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate	Units	%RPD	Limits	QC			
				Result				Qualifier	Type	Comments	
	30546	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP	
	30546	CADMIUM	ND	ND	mg/L	NA	0-20			DUP	
	30546	CHROMIUM	0.001	0.00091	mg/L	9.4	0-20			DUP	
	30546	COBALT	0.0001	0.00007	mg/L	35.3	0-20	IEV		DUP	
	30546	COPPER	0.001	0.001	mg/L	0.0	0-20			DUP	
	30546	LEAD	0.00008	0.00009	mg/L	11.8	0-20			DUP	
	30546	MANGANESE	0.141	0.145	mg/L	2.8	0-20			DUP	
	30546	NICKEL	0.001	0.001	mg/L	0.0	0-20			DUP	
	30546	SELENIUM	0.00036	0.0002	mg/L	57.1	0-20	IEV		DUP	
	30546	SILVER	ND	ND	mg/L	NA	0-20			DUP	
	30546	THALLIUM	ND	ND	mg/L	NA	0-20			DUP	
	30546	VANADIUM	0.0003	0.00025	mg/L	18.2	0-20			DUP	
	30546	ZINC	0.0036	0.0033	mg/L	8.7	0-20			DUP	
	30823	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP	
	30823	ARSENIC	0.0017	0.0017	mg/L	0.0	0-20			DUP	
	30823	BARIUM	0.013	0.013	mg/L	0.0	0-20			DUP	
	30823	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP	
	30823	CADMIUM	ND	ND	mg/L	NA	0-20			DUP	
	30823	CHROMIUM	0.003	0.003	mg/L	0.0	0-20			DUP	
	30823	COBALT	ND	ND	mg/L	NA	0-20			DUP	
	30823	COPPER	0.0015	0.0015	mg/L	0.0	0-20			DUP	
	30823	LEAD	ND	ND	mg/L	NA	0-20			DUP	
	30823	MANGANESE	0.002	0.002	mg/L	0.0	0-20			DUP	
	30823	NICKEL	0.007	0.007	mg/L	0.0	0-20			DUP	
	30823	SELENIUM	0.0002	0.0002	mg/L	0.0	0-20			DUP	
	30823	SILVER	ND	ND	mg/L	NA	0-20			DUP	
	30823	THALLIUM	ND	ND	mg/L	NA	0-20			DUP	
	30823	VANADIUM	0.004	0.004	mg/L	0.0	0-20			DUP	
	30823	ZINC	0.0015	0.0011	mg/L	30.8	0-20	IEV		DUP	
	31506	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP	
	31506	ARSENIC	0.0066	0.0066	mg/L	0.0	0-20			DUP	
	31506	BARIUM	0.020	0.020	mg/L	0.0	0-20			DUP	
	31506	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP	
	31506	CADMIUM	ND	ND	mg/L	NA	0-20			DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	31506	CHROMIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	31506	COBALT	0.0003	0.0003	mg/L	0.0	0-20		DUP	
	31506	COPPER	0.00075	0.00064	mg/L	15.8	0-20		DUP	
	31506	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	31506	MANGANESE	0.016	0.0157	mg/L	1.9	0-20		DUP	
	31506	NICKEL	0.003	0.003	mg/L	0.0	0-20		DUP	
	31506	SELENIUM	0.0003	0.0003	mg/L	0.0	0-20		DUP	
	31506	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	31506	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	31506	VANADIUM	0.002	0.002	mg/L	0.0	0-20		DUP	
	31506	ZINC	0.002	0.0025	mg/L	22.2	0-20	IEV	DUP	
	31516	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	31516	ARSENIC	0.081	0.082	mg/L	1.2	0-20		DUP	
	31516	BARIUM	0.039	0.039	mg/L	0.0	0-20		DUP	
	31516	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	CHROMIUM	0.015	0.015	mg/L	0.0	0-20		DUP	
	31516	COBALT	0.0004	0.0004	mg/L	0.0	0-20		DUP	
	31516	COPPER	0.355	0.359	mg/L	1.1	0-20		DUP	
	31516	LEAD	0.031	0.032	mg/L	3.2	0-20		DUP	
	31516	MANGANESE	0.128	0.127	mg/L	0.8	0-20		DUP	
	31516	NICKEL	0.0098	0.0097	mg/L	1.0	0-20		DUP	
	31516	SELENIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	31516	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	31516	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
COD_150709										
	30268	CHEMICAL OXYGEN DEMAND	46	48	mg/L	4.3	0-20		DUP	
	30824	CHEMICAL OXYGEN DEMAND	ND	ND	mg/L	NA	0-20		DUP	
I150707A										
	30204	CHLORIDE	4.9	4.9	mg/L	0.0	0-20		DUP	
	30204	SULFATE	9.9	9.9	mg/L	0.0	0-20		DUP	
	30547	CHLORIDE	21.9	21.9	mg/L	0.0	0-20		DUP	
	30547	FLUORIDE	0.17	0.17	mg/L	0.0	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result					Qualifier	Type	
	30547	SULFATE	21.4	21.3		mg/L	0.5	0-20		DUP	
	30547	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
TDS_150708											
	30546	TOTAL DISSOLVED SOLIDS (TDS)	552	569		mg/L	3.0	0-10		DUP	
	30705	TOTAL DISSOLVED SOLIDS (TDS)	204	201		mg/L	1.5	0-10		DUP	
TOC_150709											
	29482	TOTAL ORGANIC CARBON	22.34	20.62		mg/L	8.0	0-20		DUP	
	30009	TOTAL ORGANIC CARBON	0.17	0.20		mg/L	16.2	0-20		DUP	
	30546	TOTAL ORGANIC CARBON	2.00	1.97		mg/L	1.5	0-20		DUP	
	30820	TOTAL ORGANIC CARBON	0.92	0.86		mg/L	6.7	0-20		DUP	
	31073	TOTAL ORGANIC CARBON	0.99	0.97		mg/L	2.0	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150710															
	30819	ALKALINITY	489	580	579	250	mg/L	36	36	70-130	1.1	0-20	IM	LFM	
	30819	BICARBONATE	489	580	579	250	mg/L	36	36	70-130	1.1	0-20	IM	LFM	
	31209	ALKALINITY	773	874	869	250	mg/L	40	38	70-130	5.1	0-20	IM	LFM	
	31209	BICARBONATE	773	874	869	250	mg/L	40	38	70-130	5.1	0-20	IM	LFM	
	31336	ALKALINITY	425	647	644	250	mg CaCO3/89	80	88	70-130	1.4	0-20		LFM	
350.1_150709															
	30532	AMMONIA-N	0.12	1.18	1.18	1.00	mg/L	106	106	70-130	0.0	0-20		LFM	
	30821	AMMONIA-N	0.01	1.08	1.06	1.00	mg/L	107	105	70-130	1.9	0-20		LFM	
	30996	AMMONIA-N	ND	1.08	1.07	1.00	mg/L	108	107	70-130	0.9	0-20		LFM	
6010B_150724C															
	30546	IRON	0.14	1.10	1.12	1.00	mg/L	96	98	75-125	2.1	0-20		LFM	
	30546	CALCIUM	57.4	82.3	84.1	26.0	mg/L	96	103	75-125	7.0	0-20		LFM	
	30546	MAGNESIUM	71.0	95.3	97.9	26.0	mg/L	93	103	75-125	10.2	0-20		LFM	
	30546	POTASSIUM	9.5	43.5	44.6	35.0	mg/L	97	100	75-125	3.2	0-20		LFM	
	30823	IRON	0.007	0.054		0.050	mg/L	94		75-125	NA	0-20		LFM	
	30823	CALCIUM	30.8	56.2		26.0	mg/L	98		75-125	NA	0-20		LFM	
	30823	MAGNESIUM	29.8	55.1		26.0	mg/L	97		75-125	NA	0-20		LFM	
	30823	POTASSIUM	2.3	36.6		35.0	mg/L	98		75-125	NA	0-20		LFM	
6020_150728															
	30546	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20		LFM	
	30546	ARSENIC	0.007	0.058		0.050	mg/L	102		75-125	NA	0-20		LFM	
	30546	BARIUM	0.063	0.112		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	BERYLLIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20		LFM	
	30546	CADMIUM	ND	0.050		0.050	mg/L	100		75-125	NA	0-20		LFM	
	30546	CHROMIUM	0.001	0.049		0.050	mg/L	96		75-125	NA	0-20		LFM	
	30546	COBALT	0.0001	0.047		0.050	mg/L	94		75-125	NA	0-20		LFM	
	30546	COPPER	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	LEAD	0.00008	0.048		0.050	mg/L	96		75-125	NA	0-20		LFM	
	30546	MANGANESE	0.141	0.187		0.050	mg/L	92		75-125	NA	0-20		LFM	
	30546	NICKEL	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	SELENIUM	0.00036	0.050		0.050	mg/L	99		75-125	NA	0-20		LFM	
	30546	SILVER	ND	0.024		0.025	mg/L	96		75-125	NA	0-20		LFM	

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				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	30546	THALLIUM	ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	30546	VANADIUM	0.0003	0.048		0.050	mg/L	95			75-125	NA	0-20		LFM	
	30546	ZINC	0.0036	0.053		0.050	mg/L	99			75-125	NA	0-20		LFM	
	30823	ANTIMONY	ND	1.065		1.000	mg/L	107			75-125	NA	0-20		LFM	
	30823	ARSENIC	0.0017	0.994		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	BARIUM	0.013	0.993		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	BERYLLIUM	ND	0.992		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CADMIUM	ND	0.990		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CHROMIUM	0.003	0.946		1.000	mg/L	94			75-125	NA	0-20		LFM	
	30823	COBALT	ND	1.015		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	COPPER	0.0015	0.959		1.000	mg/L	96			75-125	NA	0-20		LFM	
	30823	LEAD	ND	0.989		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	MANGANESE	0.002	1.004		1.000	mg/L	100			75-125	NA	0-20		LFM	
	30823	NICKEL	0.007	1.001		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	SELENIUM	0.0002	0.982		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	SILVER	ND	0.253		0.500	mg/L	51			75-125	NA	0-20	IM	LFM	
	30823	THALLIUM	ND	0.948		1.000	mg/L	95			75-125	NA	0-20		LFM	
	30823	VANADIUM	0.004	1.020		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	ZINC	0.0015	1.000		1.000	mg/L	100			75-125	NA	0-20		LFM	
	31506	ANTIMONY	ND	0.056		0.050	mg/L	112			75-125	NA	0-20		LFM	
	31506	ARSENIC	0.0066	0.058		0.050	mg/L	103			75-125	NA	0-20		LFM	
	31506	BARIUM	0.020	0.070		0.050	mg/L	100			75-125	NA	0-20		LFM	
	31506	BERYLLIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	CADMIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	CHROMIUM	0.001	0.050		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	COBALT	0.0003	0.049		0.050	mg/L	97			75-125	NA	0-20		LFM	
	31506	COPPER	0.00075	0.051		0.050	mg/L	101			75-125	NA	0-20		LFM	
	31506	LEAD	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	MANGANESE	0.016	0.0635		0.050	mg/L	95			75-125	NA	0-20		LFM	
	31506	NICKEL	0.003	0.054		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	SELENIUM	0.0003	0.051		0.050	mg/L	101			75-125	NA	0-20		LFM	
	31506	SILVER	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	31506	THALLIUM	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	VANADIUM	0.002	0.049		0.050	mg/L	94			75-125	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	31506	ZINC	0.002	0.053		0.050	mg/L	102		75-125	NA	0-20		LFM	
	31516	ANTIMONY	ND	0.046		0.050	mg/L	92		75-125	NA	0-20		LFM	
	31516	ARSENIC	0.081	0.116		0.050	mg/L	70		75-125	NA	0-20	IM	LFM	
	31516	BARIIUM	0.039	0.077		0.050	mg/L	76		75-125	NA	0-20		LFM	
	31516	BERYLLIUM	ND	0.043		0.050	mg/L	86		75-125	NA	0-20		LFM	
	31516	CADMIUM	ND	0.043		0.050	mg/L	86		75-125	NA	0-20		LFM	
	31516	CHROMIUM	0.015	0.052		0.050	mg/L	74		75-125	NA	0-20	IM	LFM	
	31516	COBALT	0.0004	0.041		0.050	mg/L	81		75-125	NA	0-20		LFM	
	31516	COPPER	0.355	0.357		0.050	mg/L	4		75-125	NA	0-20	IS	LFM	
	31516	LEAD	0.031	0.069		0.050	mg/L	76		75-125	NA	0-20		LFM	
	31516	MANGANESE	0.128	0.147		0.050	mg/L	38		75-125	NA	0-20	IM	LFM	
	31516	NICKEL	0.0098	0.051		0.050	mg/L	82		75-125	NA	0-20		LFM	
	31516	SELENIUM	ND	0.039		0.050	mg/L	78		75-125	NA	0-20		LFM	
	31516	SILVER	ND	0.021		0.025	mg/L	84		75-125	NA	0-20		LFM	
	31516	THALLIUM	ND	0.042		0.050	mg/L	84		75-125	NA	0-20		LFM	
	31516	VANADIUM	ND	0.040		0.050	mg/L	80		75-125	NA	0-20		LFM	
8260W_150717															
	30546	1,1 - DICHLOROETHANE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	1,1 - DICHLOROETHYLENE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	1,1,1 - TRICHLOROETHANE	ND	4.4		4	ug/L	110	NA	70-130	NA	0-20		LFM	
	30546	1,1,1,2 - TETRACHLOROETHANE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	1,1,2 - TRICHLOROETHANE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20		LFM	
	30546	1,1,2,2 - TETRACHLOROETHANE	ND	4.1		4	ug/L	103	NA	70-130	NA	0-20		LFM	
	30546	1,2 - DICHLOROBENZENE (ortho)	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	30546	1,2 - DICHLOROETHANE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	1,2 - DICHLOROPROPANE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	1,2,3 - TRICHLOROPROPANE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20		LFM	
	30546	1,4 - DICHLOROBENZENE (para)	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	BENZENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	BROMOCHLOROMETHANE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	BROMODICHLOROMETHANE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20		LFM	
	30546	BROMOFORM	ND	3.1		4	ug/L	78	NA	70-130	NA	0-20		LFM	
	30546	BROMOMETHANE	ND	5.0		4	ug/L	125	NA	70-130	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	30546	CARBON TETRACHLORIDE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	CHLOROBENZENE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	CHLOROETHANE	ND	4.7		4	ug/L	118	NA	70-130	NA	0-20		LFM	
	30546	CHLOROFORM	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20		LFM	
	30546	CHLOROMETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	30546	CIS - 1,2 - DICHLOROETHENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	CIS - 1,3 - DICHLOROPROPENE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20		LFM	
	30546	DIBROMOCHLOROMETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20		LFM	
	30546	DIBROMOMETHANE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	ETHYLBENZENE	ND	4.1		4	ug/L	103	NA	70-130	NA	0-20		LFM	
	30546	M,P- XYLENE	ND	8.2		8	ug/L	103	NA	70-130	NA	0-20		LFM	
	30546	METHYLENE CHLORIDE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	O - XYLENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	STYRENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20		LFM	
	30546	TETRACHLOROETHYLENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	TOLUENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	TRANS - 1,2 - DICHLOROETHENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	TRANS - 1,3 - DICHLOROPROPENE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20		LFM	
	30546	TRICHLOROETHENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20		LFM	
	30546	TRICHLOROFLUOROMETHANE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
	30546	VINYL CHLORIDE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20		LFM	
COD_150709															
	30268	CHEMICAL OXYGEN DEMAND	46	95	94	50	mg/L	98	96	70-130	2.1	0-20		LFM	
	30824	CHEMICAL OXYGEN DEMAND	5	55	57	50	mg/L	100	104	70-130	3.9	0-20		LFM	
I150707A															
	30204	CHLORIDE	4.9	24		20	mg/L	96	NA	90-110	NA	0-20		LFM	
	30204	SULFATE	9.9	49.3		40	mg/L	99	NA	90-110	NA	0-20		LFM	
	30547	CHLORIDE	21.9	22.3		1	mg/L	40	NA	90-110	NA	0-20	IS	LFM	
	30547	FLUORIDE	0.17	1.1		1	mg/L	93	NA	90-110	NA	0-20		LFM	
	30547	SULFATE	21.4	22.9		2	mg/L	75	NA	90-110	NA	0-20	IS	LFM	
	30547	TOTAL NITRATE/NITRITE	ND	1.98		2	mg/L	99	NA	90-110	NA	0-20		LFM	
SIM_150713															
	31208	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.196		0.2	ug/L	98	NA	70-130	NA	0-20		LFM	
	31208	ACRYLONITRILE (SIM)	ND	0.189		0.2	ug/L	95	NA	70-130	NA	0-20		LFM	

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FORM: QC Dependent.rpt

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				Spike Result	Spike Result			MS	MSD						
TOC_150709	31208	VINYL CHLORIDE (SIM)	0.075	0.335		0.2	ug/L	130	NA	70-130	NA	0-20		LFM	
	29482	TOTAL ORGANIC CARBON	22.34	24.65		4.00	mg/L	58		70-130	NA	0-20	IS	LFM	
	30009	TOTAL ORGANIC CARBON	0.17	4.30		4.00	mg/L	103		70-130	NA	0-20		LFM	
	30546	TOTAL ORGANIC CARBON	2.00	6.02		4.00	mg/L	101		70-130	NA	0-20		LFM	
	30820	TOTAL ORGANIC CARBON	0.92	4.72		4.00	mg/L	95		70-130	NA	0-20		LFM	
	31073	TOTAL ORGANIC CARBON	0.99	5.18		4.00	mg/L	105		70-130	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-13624

Report Date: 08/07/15

Qualifier	Definition
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.
IEV	Acceptance criteria do not apply to estimated values
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
L1	The associated blank spike recovery was above laboratory acceptance limits.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1

OF 1

15-13624
30546 - 30551



REPORT TO: **SCS ENGINEERS** ADDRESS: **2405 140TH AVE. NE STE 107**

BILL TO: **ISLAND COUNTY SOLID WASTE** ADDRESS: **PO BOX 5000**

CITY: **BELLEVUE** STATE: **WA** ZIP: **98005** CITY: **Coupeville** STATE: **WA** ZIP: **98239**

ATTN: **ELENA RAMIREZ** PHONE: **360-678-7338** FAX: **360-678-7338** ATTN: **SAFETY DRINKING WATER ACT**

PHONE: **425-746-4600** FAX: **425-746-6747** P.O.#: **RCRA / CERCLA**

EMAIL: **eramirez@scsengineers.com** VISA M/C A/E EXPIRES

PROJECT NAME: **COUPEVILLE LANDFILL** CARD#

ANALYSIS REQUESTED

CHECK REGULATORY PROGRAM

SAFE DRINKING WATER ACT

CLEAN WATER ACT

RCRA / CERCLA

OTHER

ANALYTICAL

Main Lab (800-755-9295)
1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
805 W. Orchard Dr. Suite 4 Bellingham, WA 98225

Wilsonville Lab (503-682-7802)
9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

- USE ONE LINE PER SAMPLE LOCATION.
- BE SPECIFIC IN TEST REQUESTS.
- NEW LIST EACH METAL INDIVIDUALLY. NEW
- CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
- ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
- HALF-TIME (50% SURCHARGE)
- QUICKEST (100% SURCHARGE) (PHONE CALL REQ. EMERGENCY (PHONE CALL REQUIRED))

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
1 0715-01	Coupeville Landfill	G	GW	6/7/15	1108	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2 0715-02	Coupeville Landfill	G	GW		1210	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3 0715-03	Coupeville Landfill	G	GW		1406	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4 0715-04	Coupeville Landfill	G	GW		1515	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5 0715-05	Coupeville Landfill	G	GW		1705	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6 0715-06	Coupeville Landfill	G	GW		1807	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLED BY: **Sam Grotzer** PHONE: **425-457-3234** FAX: **425-457-3234** EMAIL: **SGrotzer@scsengineers.com**

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER DW-DRINKING WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL

RELINQUISHED BY: **Sam Grotzer** DATE: **6/8/15** TIME: **730** RECEIVED BY: **DS** DATE: **7.7.15** TIME: **1500**

CUSTOMER SEAL(S) INTACT YES NO N/A

SAMPLE TEMPERATURE **15.1** °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A

SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

August 6, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-14096 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Friday July 10, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-14096**
 Project: Coupeville Landfill

Report Date: 8/6/15

Date Received: 7/10/15
 Approved by: bj,ljh,mvp,sps
 Authorized by:

Lawrence J Henderson, PhD
 Director of Laboratories, Vice President

Sample Description: 0715-21 - Coupeville Landfill										Sample Date: 7/9/15 10:09 am		
Lab Number: 31506		Sample Comment:								Collected By: Sam Graber		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	36.5	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.13	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	36.6	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	278	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	278	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	406	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	TDS_150715	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.66	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	63.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.08	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	36.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	6.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	26.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0066	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.020	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0003 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.00075 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.016	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.003 J	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7782-49-2	SELENIUM	0.0003 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728
7440-66-6	ZINC	0.002 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728

Notes:

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D.F. - Dilution Factor

Data Report

Sample Description: 0715-22 - Coupeville Landfill								Sample Date: 7/9/15 11:02 am				
Lab Number: 31507		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	15.4	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	60.1	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	5.2	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	324	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	324	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	506	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.76	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	103.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.05	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	33.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	5.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	17.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.030	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.004	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0003 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.004	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.009	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0003 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.002 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-23 - Coupeville Landfill								Sample Date: 7/9/15 1:47 pm				
Lab Number: 31508		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	33	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.14	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	15.9	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	348	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	348	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.04	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	438	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	TDS_150715	
E-10117	CHEMICAL OXYGEN DEMAND	11	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.88	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	69.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.02 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	42.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	6.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	25.6	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.00094 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0002 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0004 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.241	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150730	
7440-02-0	NICKEL	0.0013	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0002 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0003 J	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0015	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0715-24 - Coupeville Landfill								Sample Date: 7/9/15 2:52 pm				
Lab Number: 31509		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	29.5	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.2	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	12.2	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	244	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	244	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.07	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	328	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	TDS_150715	
E-10117	CHEMICAL OXYGEN DEMAND	20	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	3.16	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	38.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	1.36	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	26.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	10.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	39.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.014	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.037	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0026	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00065 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.003	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.00076	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.084	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0033	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0002 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.006	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-25 - Coupeville Landfill									Sample Date: 7/9/15 4:09 pm			
Lab Number: 31510			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	58.8	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	101	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	42.2	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	430	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	430	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	879	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	9	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.51	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	144.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.04 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	85.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	7.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	30.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0017	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.038	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00035 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0015 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.076	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0083	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0003 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0018 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-26 - Coupeville Landfill								Sample Date: 7/9/15 5:00 pm				
Lab Number: 31511		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	53.9	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.13	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	41.9	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	1.39	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	333	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	333	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	500	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.39	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	80.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.02 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	45.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	5.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	31.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.022	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0018	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.053	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.0004 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.0008 J	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0016	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0024	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.085	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-27 - Coupeville Landfill									Sample Date: 7/10/15 9:30 am			
Lab Number: 31512			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	81.1	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	48.5	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	0.17	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	807	10.0		mg CaCO3/L	2.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	807	10.0		mg CaCO3/L	2.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	976	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	14	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.14	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	163.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.008 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	106.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	8.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	43.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.004	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.044	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.00084 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0009 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0012 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.038	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0063	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0007 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0065	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-28 - Coupeville Landfill									Sample Date: 7/10/15 9:30 am			
Lab Number: 31513			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	81.7	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.11	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	48.3	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	0.19	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	801	10.0		mg CaCO ₃ /L	2.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	801	10.0		mg CaCO ₃ /L	2.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	979	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	1.07	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	164.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.008 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	107.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	8.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	44.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0038	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.043	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0008 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0008 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0021	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.034	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0065	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0006 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0032	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 0715-29 - Coupeville Landfill									Sample Date: 7/10/15 10:40 am			
Lab Number: 31514			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	90.8	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	41.7	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	11.9	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	391	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	391	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	668	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	23	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.94	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	133.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.004 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	50.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	6.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	28.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0012	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.036	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.013	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.00016 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.001 J	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.0007 J	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0035	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.0004 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0034	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.0017 J	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-30 - Coupeville Landfill										Sample Date: 7/10/15 11:50 am		
Lab Number: 31515		Sample Comment:					Collected By: Sam Graber					
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	23.9	0.10	0.0211	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
14808-79-8	SULFATE	65	0.20	0.0174	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	8.01	0.10	0.0206	mg/L	1.0	300.0	a	7/10/15	BJ	I150710A	
E-14506	ALKALINITY	677	10.0		mg CaCO3/L	2.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	677	10.0		mg CaCO3/L	2.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.01	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	843	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.96	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	174.7	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	69.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	7.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	32.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.0014	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.065	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.0008 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0014	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.0026	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.00015 J	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.477	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	0.00035 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	0.0026	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-66-6	ZINC	0.005	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-31 - Coupeville Landfill								Sample Date: 7/10/15 1:00 pm				
Lab Number: 31516		Sample Comment:						Collected By: Sam Graber				
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	34.7	0.10	0.0211	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A	
16984-48-8	FLUORIDE	0.13	0.10	0.0054	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A	
14808-79-8	SULFATE	8.5	0.20	0.0174	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.10	0.0206	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A	
E-14506	ALKALINITY	234	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
NA	BICARBONATE	234	5.00		mg CaCO3/L	1.0	310.2	a	7/15/15	SPS	310.2_150715	
7664-41-7	AMMONIA-N	0.06	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	310	20		mg/L	2.0	SM2540 C	a	7/15/15	MMH	TDS_150715	
E-10117	CHEMICAL OXYGEN DEMAND	16	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714	
E-10195	TOTAL ORGANIC CARBON	0.87	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716	
7440-70-2	CALCIUM	41.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-89-6	IRON	10.57	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7439-95-4	MAGNESIUM	31.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-09-7	POTASSIUM	11.6	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-23-5	SODIUM	19.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-66-6	ZINC	2.780	0.020	0.0003	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-38-2	ARSENIC	0.081	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-39-3	BARIUM	0.039	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-47-3	CHROMIUM	0.015	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-48-4	COBALT	0.0004 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-50-8	COPPER	0.355	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-92-1	LEAD	0.031	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7439-96-5	MANGANESE	0.128	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-02-0	NICKEL	0.0098	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150728	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 0715-32 - Coupeville Landfill										Sample Date: 7/10/15 1:40 pm					
Lab Number: 31517										Sample Comment:			Collected By: Sam Graber		
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment			
16887-00-6	CHLORIDE	23.8	0.10	0.0211	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A				
16984-48-8	FLUORIDE	ND	0.10	0.0054	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A				
14808-79-8	SULFATE	54.4	0.20	0.0174	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A				
E-10128	TOTAL NITRATE/NITRITE	2.67	0.10	0.0206	mg/L	1.0	300.0	a	7/11/15	BJ	I150710A				
E-14506	ALKALINITY	1060	25.0		mg CaCO3/L	5.0	310.2	a	7/15/15	SPS	310.2_150715				
NA	BICARBONATE	1060	25.0		mg CaCO3/L	5.0	310.2	a	7/15/15	SPS	310.2_150715				
7664-41-7	AMMONIA-N	ND	0.01	0.0031	mg/L	1.0	350.1	a	7/20/15	SPS	350.1_150720				
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	1129	10		mg/L	1.0	SM2540 C	a	7/15/15	MMH	tds_150715				
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5.0	mg/L	1.0	SM5220 D	a	7/14/15	ANP	COD_150714				
E-10195	TOTAL ORGANIC CARBON	1.71	0.15	0.05	mg/L	1.0	SM5310 B	a	7/17/15	BJ	TOC_150716				
7440-70-2	CALCIUM	232.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A				
7439-89-6	IRON	0.03 J	0.050	0.0012	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A				
7439-95-4	MAGNESIUM	109.8	0.500	0.001	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A				
7440-09-7	POTASSIUM	9.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A				
7440-23-5	SODIUM	41.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	7/28/15	BJ	6010B_150728A				
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-38-2	ARSENIC	0.0016	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-39-3	BARIUM	0.048	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-43-9	CADMIUM	0.00096 J	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-47-3	CHROMIUM	0.0002 J	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-48-4	COBALT	0.0005 J	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-50-8	COPPER	0.0024	0.002	2.32E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7439-92-1	LEAD	0.0007	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7439-96-5	MANGANESE	0.057	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	7/28/15	MVP	6020_150730				
7440-02-0	NICKEL	0.010	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7782-49-2	SELENIUM	0.0004 J	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				
7440-66-6	ZINC	0.0044	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	7/30/15	MVP	6020_150730				

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31517
Field ID: 0715-32
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/17/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/17/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150717
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.4		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	0.6		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	1.1		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	3.1		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	33.5		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31517
Field ID: 0715-32
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	29.1		ug/L	0.02	0.01	0.0059	1.00	a	Full Scan
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31516
Field ID: 0715-31
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31516
Field ID: 0715-31
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31515
Field ID: 0715-30
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.3		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	0.5		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31515
Field ID: 0715-30
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.424		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31514
Field ID: 0715-29
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 3510C

Report Date: 8/6/15
Date Analyzed: 7/27/15
Analyst: CO
Analytical Method: 8151A
Batch: 8151_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
50594-66-1	ACIFLUORFEN	ND		ug/L	0.1	0.1	0.15	1.00	a	
55336-06-1	TRICLOPYR	ND		ug/L	0.1	0.1	0.05	1.00	a	
94-75-7	2,4 - D	ND		ug/L	0.1	0.1	0.05	1.00	a	
94-82-6	2,4 DB	ND		ug/L	0.8	0.8	0.22	1.00	a	
93-72-1	2,4,5 - TP (SILVEX)	ND		ug/L	0.1	0.1	0.04	1.00	a	
93-76-5	2,4,5 T	ND		ug/L	0.1	0.1	0.03	1.00	a	
75-99-0	DALAPON	ND		ug/L	1.3	1.3	0.77	1.00	a	
1918-00-9	DICAMBA	5.0		ug/L	2	0.1	0.6	20.00	a	
120-36-5	DICHLORPROP	ND		ug/L	0.1	0.1	0.05	1.00	a	
88-85-7	DINOSEB	ND		ug/L	0.1	0.1	0.13	1.00	a	
94-74-6	MCPA	ND		ug/L	0.1	0.1	0.03	1.00	a	
7085-19-0	MCPP	ND		ug/L	0.1	0.1	0.03	1.00	a	
87-86-5	PENTACHLOROPHENOL	ND		ug/L	0.1	0.1	0.02	1.00	a	
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND		ug/L	0.5	0.5	0.02	1.00	a	
25057-89-1	BENTAZON	ND		ug/L	0.5	0.5	0.03	1.00	a	
133-90-4	CHLORAMBEN	ND		ug/L	0.2	0.2	0.1	1.00	a	
1861-32-1	TOTAL DCPA	ND		ug/L	0.1	0.1	0.04	1.00	a	
1918-02-1	PICLORAM	ND		ug/L	0.2	0.2	0.03	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31514
Field ID: 0715-29
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.4		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.7		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31514
Field ID: 0715-29
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31513
Field ID: 0715-28
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	0.4		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31513
Field ID: 0715-28
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.196		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31512
Field ID: 0715-27
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31512
Field ID: 0715-27
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/10/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.207		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31511
Field ID: 0715-26
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31511
Field ID: 0715-26
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31510
Field ID: 0715-25
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.6		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	6.0		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31510
Field ID: 0715-25
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.055		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31509
Field ID: 0715-24
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31509
Field ID: 0715-24
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.033		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31508
Field ID: 0715-23
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31508
Field ID: 0715-23
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31507
Field ID: 0715-22
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	3	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31507
Field ID: 0715-22
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a		

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31506
Field ID: 0715-21
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/20/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/20/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_150720
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-14096**
Project: Coupeville Landfill

Lab Number: 31506
Field ID: 0715-21
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 7/9/15
Extraction Date: 7/15/15
Extraction Method: 5030B

Report Date: 8/6/15
Date Analyzed: 7/15/15
Analyst: HY
Analytical Method: 8260SIM
Batch: SIM_150715
Approved By: pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.0059	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.0125	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.0069	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_150720	0 AMMONIA-N	2.60	2.50	mg/L	350.1	104	90-110	CAL	
6010B_150728A	2 CALCIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 IRON	1	1	mg/L	6010B	100	90-110	CAL	
	2 MAGNESIUM	11	11	mg/L	6010B	100	90-110	CAL	
	2 POTASSIUM	9.6	10	mg/L	6010B	96	90-110	CAL	
	2 SODIUM	10.8	11	mg/L	6010B	98	90-110	CAL	
	2 ZINC	1.02	1	mg/L	6010B	102	90-110	CAL	
6020_150728	0 ANTIMONY	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	0 ARSENIC	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 BARIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 BERYLLIUM	0.0011	0.001	mg/L	6020A	110	80-120	CAL	
	0 CADMIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 CHROMIUM	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
	0 COBALT	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 COPPER	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	0 LEAD	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	0 MANGANESE	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 NICKEL	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 THALLIUM	0.00105	0.001	mg/L	6020A	105	80-120	CAL	
	0 VANADIUM	0.00103	0.001	mg/L	6020A	103	80-120	CAL	
	0 ZINC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
6020_150730	0 ANTIMONY	0.0009	0.001	mg/L	6020A	90	80-120	CAL	
	0 ARSENIC	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 BARIUM	0.00092	0.001	mg/L	6020A	92	80-120	CAL	
	0 BERYLLIUM	0.00103	0.001	mg/L	6020A	103	80-120	CAL	
	0 CADMIUM	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 CHROMIUM	0.00102	0.001	mg/L	6020A	102	80-120	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
6020_150730	0 COBALT	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	0 COPPER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 LEAD	0.00093	0.001	mg/L	6020A	93	80-120	CAL	
	0 MANGANESE	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 NICKEL	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 SELENIUM	0.00101	0.001	mg/L	6020A	101	80-120	CAL	
	0 SILVER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 THALLIUM	0.00093	0.001	mg/L	6020A	93	80-120	CAL	
	0 VANADIUM	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 ZINC	0.00106	0.001	mg/L	6020A	106	80-120	CAL	
I150710A	0 CHLORIDE	1.01	1	mg/L	300.0	101	90-110	CAL	
	0 FLUORIDE	1.04	1	mg/L	300.0	104	90-110	CAL	
	0 SULFATE	2.17	2	mg/L	300.0	109	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.16	2	mg/L	300.0	108	90-110	CAL	
TOC_150716	0 TOTAL ORGANIC CARBON	2.64	2.50	mg/L	SM5310 B	106	90-110	CAL	
	1 TOTAL ORGANIC CARBON	101.7	100.0	mg/L	SM5310 B	102	90-110	CAL	
	2 TOTAL ORGANIC CARBON	4.93	5.00	mg/L	SM5310 B	99	90-110	CAL	
	3 TOTAL ORGANIC CARBON	0.45	0.50	mg/L	SM5310 B	90	90-110	CAL	
	4 TOTAL ORGANIC CARBON	0.16	0.15	mg/L	SM5310 B	107	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
6010B_150728A	0 CALCIUM	26.3	26	mg/L	6010B	101	85-115	LFB		
	0 IRON	1	1	mg/L	6010B	100	85-115	LFB		
	0 MAGNESIUM	26.1	26	mg/L	6010B	100	85-115	LFB		
	0 POTASSIUM	33.7	35	mg/L	6010B	96	85-115	LFB		
	0 SODIUM	25.9	26	mg/L	6010B	100	85-115	LFB		
	0 ZINC	0.98	1	mg/L	6010B	98	85-115	LFB		
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	80-120	LFB		
	0 ARSENIC	0.039	0.040	mg/L	6020A	98	80-120	LFB		
	0 BARIUM	0.039	0.040	mg/L	6020A	98	80-120	LFB		
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	80-120	LFB		
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	80-120	LFB		
	0 CHROMIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB		
	0 COBALT	0.037	0.040	mg/L	6020A	93	80-120	LFB		
	0 COPPER	0.040	0.040	mg/L	6020A	100	80-120	LFB		
	0 LEAD	0.038	0.040	mg/L	6020A	95	80-120	LFB		
	0 MANGANESE	0.037	0.040	mg/L	6020A	93	80-120	LFB		
	0 NICKEL	0.039	0.040	mg/L	6020A	98	80-120	LFB		
	0 SELENIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB		
	0 SILVER	0.019	0.020	mg/L	6020A	95	80-120	LFB		
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	80-120	LFB		
	0 VANADIUM	0.036	0.040	mg/L	6020A	90	80-120	LFB		
0 ZINC	0.041	0.040	mg/L	6020A	103	80-120	LFB			
8151_150715	0 2,4 - D	2.42	2	ug/L	8151A	121	60-120	HQ	LFB	
	0 2,4 DB	7.06	8	ug/L	8151A	88	49-136		LFB	
	0 2,4,5 - TP (SILVEX)	1.21	1	ug/L	8151A	121	68-122		LFB	
	0 2,4,5 T	1.33	1	ug/L	8151A	133	62-128	HQ	LFB	
	0 ACIFLUORFEN	1.11	1	ug/L	8151A	111	65-125		LFB	
	0 BENTAZON	2.43	2	ug/L	8151A	122	67-121		LFB	
	0 DALAPON	12.8	13	ug/L	8151A	98	53-142		LFB	
	0 DICAMBA	1.12	1	ug/L	8151A	112	66-126		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8151_150715	0 DICHLORPROP	3.51	3	ug/L	8151A	117	63-123		LFB	
	0 DINOSEB	1.99	2	ug/L	8151A	100	73-127		LFB	
	0 MCPA	1.07	1	ug/L	8151A	107	49-121		LFB	
	0 MCPP	0.97	1	ug/L	8151A	97	48-126		LFB	
	0 PENTACHLOROPHENOL	1.12	1	ug/L	8151A	112	69-123		LFB	
	0 PICLORAM	1.2	1	ug/L	8151A	120	48-114	HQ	LFB	
	0 TOTAL DCPA	1.3	1	ug/L	8151A	130	48-168		LFB	
	1 2,4 - D	0.27	0.22	ug/L	8151A	123	60-120	m8	LFB	
	1 2,4 DB	0.96	0.89	ug/L	8151A	108	49-136		LFB	
	1 2,4,5 - TP (SILVEX)	0.13	0.11	ug/L	8151A	118	68-122		LFB	
	1 2,4,5 T	0.13	0.11	ug/L	8151A	118	62-128		LFB	
	1 BENTAZON	0.27	0.22	ug/L	8151A	123	67-121	m8	LFB	
	1 DALAPON	1.31	1.44	ug/L	8151A	91	53-142		LFB	
	1 DICAMBA	0.13	0.11	ug/L	8151A	118	66-126		LFB	
	1 DICHLORPROP	0.36	0.33	ug/L	8151A	109	63-123		LFB	
	1 DINOSEB	0.16	0.22	ug/L	8151A	73	73-127		LFB	
	1 MCPA	0.09	0.11	ug/L	8151A	82	49-121		LFB	
	1 MCPP	0.11	0.11	ug/L	8151A	100	48-126		LFB	
	1 PENTACHLOROPHENOL	0.13	0.11	ug/L	8151A	118	69-123		LFB	
	1 PICLORAM	0.09	0.11	ug/L	8151A	82	48-114		LFB	
	1 TOTAL DCPA	0.16	0.11	ug/L	8151A	145	48-168		LFB	
	8260W_150717	0 1,1 - DICHLOROETHANE	4.4	4	ug/L	8260B	110	80-120		LFB
0 1,1 - DICHLOROETHYLENE		3.9	4	ug/L	8260B	98	80-120		LFB	
0 1,1,1 - TRICHLOROETHANE		4.2	4	ug/L	8260B	105	80-120		LFB	
0 1,1,1,2 - TETRACHLOROETHANE		4.1	4	ug/L	8260B	103	80-120		LFB	
0 1,1,2 - TRICHLOROETHANE		4.1	4	ug/L	8260B	103	80-120		LFB	
0 1,1,2,2 - TETRACHLOROETHANE		4.2	4	ug/L	8260B	105	80-120		LFB	
0 1,2 - DICHLOROBENZENE (ortho)		3.9	4	ug/L	8260B	98	80-120		LFB	
0 1,2 - DICHLOROETHANE		4.4	4	ug/L	8260B	110	80-120		LFB	
0 1,2 - DICHLOROPROPANE		4.3	4	ug/L	8260B	108	80-120		LFB	
0 1,2,3 - TRICHLOROPROPANE		4.3	4	ug/L	8260B	108	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150717	0 1,2-DIBROMO-3-CHLOROPROPANE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 1,4 - DICHLORO BENZENE (para)	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 2-BUTANONE (MEK)	10.6	10	ug/L	8260B	106	80-120		LFB	
	0 2-HEXANONE	10.6	10	ug/L	8260B	106	80-120		LFB	
	0 4-METHYL-2-PENTANONE	10.2	10	ug/L	8260B	102	80-120		LFB	
	0 ACETONE	9.9	10	ug/L	8260B	99	80-120	AH	LFB	
	0 BENZENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 BROMOCHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 BROMODICHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 BROMOFORM	3.3	4	ug/L	8260B	83	80-120		LFB	
	0 BROMOMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CARBON DISULFIDE	11.7	10	ug/L	8260B	117	80-120		LFB	
	0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 CHLOROBENZENE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 CHLOROETHANE	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 CHLOROMETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CIS - 1,2 - DICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 DIBROMOMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 ETHYLBENZENE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 M,P- XYLENE	8.2	8	ug/L	8260B	103	80-120		LFB	
	0 METHYL IODIDE	9.9	10	ug/L	8260B	99	80-120		LFB	
	0 METHYLENE CHLORIDE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 O - XYLENE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 STYRENE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 TETRACHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 TOLUENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.7	10	ug/L	8260B	117	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_150717	0 TRICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 TRICHLOROFUROMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 VINYL ACETATE	10.6	10	ug/L	8260B	106	80-120		LFB	
	0 VINYL CHLORIDE	4.2	4	ug/L	8260B	105	80-120		LFB	
8260W_150720	0 1,1 - DICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,1 - DICHLOROETHYLENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 1,1,2 - TRICHLOROETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	3.7	4	ug/L	8260B	93	80-120		LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 1,2 - DICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 1,2,3 - TRICHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,4 - DICHLOROBENZENE (para)	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 2-BUTANONE (MEK)	13.3	10	ug/L	8260B	133	80-120	HR	LFB	
	0 2-HEXANONE	13.0	10	ug/L	8260B	130	80-120	HR	LFB	
	0 4-METHYL-2-PENTANONE	10.1	10	ug/L	8260B	101	80-120		LFB	
	0 ACETONE	11.5	10	ug/L	8260B	115	80-120	AH	LFB	
	0 BENZENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 BROMOCHLOROMETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 BROMODICHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 BROMOFORM	3.0	4	ug/L	8260B	75	80-120	LR	LFB	
	0 BROMOMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 CARBON DISULFIDE	10.6	10	ug/L	8260B	106	80-120		LFB	
	0 CARBON TETRACHLORIDE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 CHLOROENZENE	3.7	4	ug/L	8260B	93	80-120		LFB	
0 CHLOROETHANE	4.1	4	ug/L	8260B	103	80-120		LFB		
0 CHLOROFORM	3.7	4	ug/L	8260B	93	80-120		LFB		
0 CHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	0 CIS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	0 DIBROMOMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 ETHYLBENZENE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 M,P- XYLENE	7.2	8	ug/L	8260B	90	80-120	LFB	
	0 METHYL IODIDE	10.1	10	ug/L	8260B	101	80-120	LFB	
	0 METHYLENE CHLORIDE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 O - XYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 STYRENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TETRACHLOROETHYLENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TOLUENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.4	4	ug/L	8260B	85	80-120	LFB	
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.2	10	ug/L	8260B	112	80-120	LFB	
	0 TRICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TRICHLOROFLUOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
0 VINYL ACETATE	11.9	10	ug/L	8260B	119	80-120	LFB		
0 VINYL CHLORIDE	3.5	4	ug/L	8260B	88	80-120	LFB		
COD_150714	0 CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D	98	90-110	LFB	
SIM_150715	0 1,2 - DIBROMOETHANE (EDB SIM)	0.181	0.2	ug/L	8260SIM	91	70-130	LFB	SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.183	0.2	ug/L	8260SIM	92	70-130	LFB	SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.201	0.2	ug/L	8260SIM	101	70-130	LFB	SIMS ANALYSIS
TOC_150716	0 TOTAL ORGANIC CARBON	1.00	1.00	mg/L	SM5310 B	100	90-110	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150715	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_150720	0 AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B_150728A	0 CALCIUM	ND		mg/L	6010B		0-0	LRB	
	0 IRON	ND		mg/L	6010B		0-0	LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	0 SODIUM	ND		mg/L	6010B		0-0	LRB	
	0 ZINC	ND		mg/L	6010B		0-0	LRB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
0 VANADIUM	ND		mg/L	6020A		0-0	LRB		
0 ZINC	ND		mg/L	6020A		0-0	LRB		
6020_150730	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
6020_150730	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
	0 VANADIUM	ND		mg/L	6020A		0-0	LRB	
	0 ZINC	ND		mg/L	6020A		0-0	LRB	
1150710A	0 CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	
TOC_150716	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150715	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	MB	
350.1_150720	0 AMMONIA-N	ND		mg/L	350.1		0-0	MB	
6010B_150728A	0 CALCIUM	ND		mg/L	6010B		0-0	MB	
	0 IRON	0.02		mg/L	6010B		0-0	MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	MB	
	0 SODIUM	ND		mg/L	6010B		0-0	MB	
	0 ZINC	ND		mg/L	6010B		0-0	MB	
6020_150728	0 ANTIMONY	ND		mg/L	6020A		0-0	MB	
	0 ARSENIC	ND		mg/L	6020A		0-0	MB	
	0 BARIUM	ND		mg/L	6020A		0-0	MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	MB	
	0 CADMIUM	ND		mg/L	6020A		0-0	MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	MB	
	0 COBALT	ND		mg/L	6020A		0-0	MB	
	0 COPPER	ND		mg/L	6020A		0-0	MB	
	0 LEAD	ND		mg/L	6020A		0-0	MB	
	0 MANGANESE	ND		mg/L	6020A		0-0	MB	
	0 NICKEL	ND		mg/L	6020A		0-0	MB	
	0 SELENIUM	ND		mg/L	6020A		0-0	MB	
	0 SILVER	ND		mg/L	6020A		0-0	MB	
	0 THALLIUM	ND		mg/L	6020A		0-0	MB	
0 VANADIUM	ND		mg/L	6020A		0-0	MB		
0 ZINC	ND		mg/L	6020A		0-0	MB		
8151_150715	0 2,4 - D	ND		ug/L	8151A		0-0	MB	
	0 2,4 DB	ND		ug/L	8151A		0-0	MB	
	0 2,4,5 - TP (SILVEX)	ND		ug/L	8151A		0-0	MB	
	0 2,4,5 T	ND		ug/L	8151A		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8151_150715	0 ACIFLUORFEN	ND		ug/L	8151A		0-0	MB	
	0 BENTAZON	ND		ug/L	8151A		0-0	MB	
	0 DALAPON	ND		ug/L	8151A		0-0	MB	
	0 DICAMBA	ND		ug/L	8151A		0-0	MB	
	0 DICHLORPROP	ND		ug/L	8151A		0-0	MB	
	0 DINOSEB	ND		ug/L	8151A		0-0	MB	
	0 MCPA	ND		ug/L	8151A		0-0	MB	
	0 MCPP	ND		ug/L	8151A		0-0	MB	
	0 PENTACHLOROPHENOL	ND		ug/L	8151A		0-0	MB	
	0 PICLORAM	ND		ug/L	8151A		0-0	MB	
	0 TOTAL DCPA	ND		ug/L	8151A		0-0	MB	
8260W_150717	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 2-BUTANONE (MEK)	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 2-HEXANONE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 ACETONE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 BENZENE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13624
	0 BROMOFORM	ND		ug/L	8260B		0-0	MB	TB 15-13624

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13624
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13755
	2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13755
	BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13755

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150717	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-13755
	1 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13755
8260W_150720	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-14096
0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096	
0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096	
0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	0 CHLORO BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-14096
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	1 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-13973
	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-13973

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_150720	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 VINYL ACETATE	ND		ug/L	8260B		0-0	MB	TB 15-13973
	1 VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB	TB 15-13973
COD_150714	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB	
SIM_150715	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-14096
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-14096
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB	TB 15-14096
tds_150715	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3	MB	
TOC_150716	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0	MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_150715	0 ALKALINITY	98.6	100	mg CaCO3/l	310.2	99	85-115	QCS	
350.1_150720	0 AMMONIA-N	2.78	2.85	mg/L	350.1	98	85-115	QCS	
6010B_150728A	0 IRON	2.04	2	mg/L	6010B	102	90-110	QCS	
	0 ZINC	2.03	2	mg/L	6010B	102	90-110	QCS	
	1 CALCIUM	20	20	mg/L	6010B	100	90-110	QCS	
	1 MAGNESIUM	20	20	mg/L	6010B	100	90-110	QCS	
	1 POTASSIUM	19.8	20	mg/L	6010B	99	90-110	QCS	
	1 SODIUM	20.1	20	mg/L	6010B	101	90-110	QCS	
6020_150728	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BARIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 BERYLLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CADMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 CHROMIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COBALT	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 MANGANESE	0.036	0.040	mg/L	6020A	90	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.042	0.040	mg/L	6020A	105	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 VANADIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
6020_150730	0 ANTIMONY	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 ARSENIC	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 BARIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-14096**

Report Date: 08/06/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
6020_150730	0 CADMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 CHROMIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 LEAD	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 MANGANESE	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 NICKEL	0.038	0.040	mg/L	6020A	95	90-110	QCS	
	0 SELENIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.037	0.040	mg/L	6020A	93	90-110	QCS	
	0 VANADIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 ZINC	0.038	0.040	mg/L	6020A	95	90-110	QCS	
COD_150714	0 CHEMICAL OXYGEN DEMAND	135	137	mg/L	SM5220 D	99	90-110	QCS	
I150710A	0 CHLORIDE	5.77	6	mg/L	300.0	96	90-110	QCS	
	0 FLUORIDE	3.9	4	mg/L	300.0	98	90-110	QCS	
	0 SULFATE	29.4	30	mg/L	300.0	98	90-110	QCS	
	0 TOTAL NITRATE/NITRITE	11.74	12	mg/L	300.0	98	90-110	QCS	
tds_150715	0 TOTAL DISSOLVED SOLIDS (TDS)	499	500	mg/L	SM2540 C	100	80-120	QCS	
TOC_150716	0 TOTAL ORGANIC CARBON	4.93	5.00	mg/L	SM5310 B	99	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		Comments
				Result	Result				Qualifier	Type	
Duplicate											
310.2_150715											
	31515	ALKALINITY	677	675		mg/L	0.3	0-20			DUP
	31515	BICARBONATE	677	675		mg/L	0.3	0-20			DUP
	31746	ALKALINITY	417	417		mg CaCO3/l	0.0	0-20			DUP
350.1_150720											
	31210	AMMONIA-N	0.28	0.28		mg/L	0.0	0-20			DUP
	31510	AMMONIA-N	ND	ND		mg/L	NA	0-20			DUP
	31599	AMMONIA-N	2.73	2.70		mg/L	1.1	0-20			DUP
	31929	AMMONIA-N	0.08	0.08		mg/L	0.0	0-20			DUP
	32363	AMMONIA-N	0.03	0.02		mg/L	40.0	0-20	INH		DUP
	32815	AMMONIA-N	4.03	4.04		mg/L	0.2	0-20			DUP
6010B_150728A											
	31506	IRON	0.08	0.08		mg/L	0.0	0-20			DUP
	31506	CALCIUM	63.1	62.8		mg/L	0.5	0-20			DUP
	31506	MAGNESIUM	36.3	36.1		mg/L	0.6	0-20			DUP
	31506	POTASSIUM	6.1	6.1		mg/L	0.0	0-20			DUP
	31506	SODIUM	26.2	26.1		mg/L	0.4	0-20			DUP
	31516	IRON	10.57	10.59		mg/L	0.2	0-20			DUP
	31516	CALCIUM	41.9	41.6		mg/L	0.7	0-20			DUP
	31516	MAGNESIUM	31.3	31.1		mg/L	0.6	0-20			DUP
	31516	POTASSIUM	11.6	11.6		mg/L	0.0	0-20			DUP
	31516	SODIUM	19.8	19.7		mg/L	0.5	0-20			DUP
6020_150728											
	30546	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	30546	ARSENIC	0.007	0.007		mg/L	0.0	0-20			DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate	Units	%RPD	Limits	QC		
				Result				Qualifier	Type	Comments
	30546	BARIUM	0.063	0.065	mg/L	3.1	0-20		DUP	
	30546	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30546	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	30546	CHROMIUM	0.001	0.00091	mg/L	9.4	0-20		DUP	
	30546	COBALT	0.0001	0.00007	mg/L	35.3	0-20	IEV	DUP	
	30546	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	30546	LEAD	0.00008	0.00009	mg/L	11.8	0-20		DUP	
	30546	MANGANESE	0.141	0.145	mg/L	2.8	0-20		DUP	
	30546	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	30546	SELENIUM	0.00036	0.0002	mg/L	57.1	0-20	IEV	DUP	
	30546	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	30546	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30546	VANADIUM	0.0003	0.00025	mg/L	18.2	0-20		DUP	
	30546	ZINC	0.0036	0.0033	mg/L	8.7	0-20		DUP	
	30823	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	30823	ARSENIC	0.0017	0.0017	mg/L	0.0	0-20		DUP	
	30823	BARIUM	0.013	0.013	mg/L	0.0	0-20		DUP	
	30823	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30823	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	30823	CHROMIUM	0.003	0.003	mg/L	0.0	0-20		DUP	
	30823	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	30823	COPPER	0.0015	0.0015	mg/L	0.0	0-20		DUP	
	30823	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	30823	MANGANESE	0.002	0.002	mg/L	0.0	0-20		DUP	
	30823	NICKEL	0.007	0.007	mg/L	0.0	0-20		DUP	
	30823	SELENIUM	0.0002	0.0002	mg/L	0.0	0-20		DUP	
	30823	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	30823	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	30823	VANADIUM	0.004	0.004	mg/L	0.0	0-20		DUP	
	30823	ZINC	0.0015	0.0011	mg/L	30.8	0-20	IEV	DUP	
	31506	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	31506	ARSENIC	0.0066	0.0066	mg/L	0.0	0-20		DUP	
	31506	BARIUM	0.020	0.020	mg/L	0.0	0-20		DUP	
	31506	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	31506	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	31506	CHROMIUM	0.001	0.001		mg/L	0.0	0-20		DUP	
	31506	COBALT	0.0003	0.0003		mg/L	0.0	0-20		DUP	
	31506	COPPER	0.00075	0.00064		mg/L	15.8	0-20		DUP	
	31506	LEAD	ND	ND		mg/L	NA	0-20		DUP	
	31506	MANGANESE	0.016	0.0157		mg/L	1.9	0-20		DUP	
	31506	NICKEL	0.003	0.003		mg/L	0.0	0-20		DUP	
	31506	SELENIUM	0.0003	0.0003		mg/L	0.0	0-20		DUP	
	31506	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	31506	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31506	VANADIUM	0.002	0.002		mg/L	0.0	0-20		DUP	
	31506	ZINC	0.002	0.0025		mg/L	22.2	0-20	IEV	DUP	
	31516	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	31516	ARSENIC	0.081	0.082		mg/L	1.2	0-20		DUP	
	31516	BARIUM	0.039	0.039		mg/L	0.0	0-20		DUP	
	31516	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	CHROMIUM	0.015	0.015		mg/L	0.0	0-20		DUP	
	31516	COBALT	0.0004	0.0004		mg/L	0.0	0-20		DUP	
	31516	COPPER	0.355	0.359		mg/L	1.1	0-20		DUP	
	31516	LEAD	0.031	0.032		mg/L	3.2	0-20		DUP	
	31516	MANGANESE	0.128	0.127		mg/L	0.8	0-20		DUP	
	31516	NICKEL	0.0098	0.0097		mg/L	1.0	0-20		DUP	
	31516	SELENIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	31516	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	31516	VANADIUM	ND	ND		mg/L	NA	0-20		DUP	
8151_150715											
	31514	DICAMBA	5.0	5.7	E	ug/L	13.1	0-35		DUP	
COD_150714											
	31210	CHEMICAL OXYGEN DEMAND	6	7		mg/L	15.4	0-20		DUP	
	31513	CHEMICAL OXYGEN DEMAND	7	6		mg/L	15.4	0-20		DUP	
	31517	CHEMICAL OXYGEN DEMAND	10	11		mg/L	9.5	0-20		DUP	

I150710A

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Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	31206	CHLORIDE	41.4	41.7		mg/L	0.7	0-20		DUP	
	31206	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	31206	SULFATE	39.4	39.2		mg/L	0.5	0-20		DUP	
	31206	TOTAL NITRATE/NITRITE	0.5	0.54		mg/L	7.7	0-20		DUP	
	31294	FLUORIDE	ND	ND		mg/L	NA	0-20		DUP	
	31508	CHLORIDE	33	33		mg/L	0.0	0-20		DUP	
	31508	FLUORIDE	0.14	0.14		mg/L	0.0	0-20		DUP	
	31508	SULFATE	15.9	15.9		mg/L	0.0	0-20		DUP	
	31508	TOTAL NITRATE/NITRITE	ND	ND		mg/L	NA	0-20		DUP	
tds_150715											
	31746	TOTAL DISSOLVED SOLIDS (TDS)	559	569		mg/L	1.8	0-10		DUP	
	32018	TOTAL DISSOLVED SOLIDS (TDS)	80	78		mg/L	2.5	0-10		DUP	
TOC_150716											
	31160	TOTAL ORGANIC CARBON	1.04	1.01		mg/L	2.9	0-20		DUP	
	31169	TOTAL ORGANIC CARBON	1.02	1.04		mg/L	1.9	0-20		DUP	
	31212	TOTAL ORGANIC CARBON	1.53	1.50		mg/L	2.0	0-20		DUP	
	31514	TOTAL ORGANIC CARBON	0.94	0.97		mg/L	3.1	0-20		DUP	
	31610	TOTAL ORGANIC CARBON	0.99	1.02		mg/L	3.0	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_150715															
	31515	ALKALINITY	677	833	834	250	mg/L	62	63	70-130	0.6	0-20	IM	LFM	
	31515	BICARBONATE	677	833	834	250	mg/L	62	63	70-130	0.6	0-20	IM	LFM	
	31746	ALKALINITY	417	638	634	250	mg CaCO3/88	87	87	70-130	1.8	0-20		LFM	
350.1_150720															
	31210	AMMONIA-N	0.28	1.36	1.36	1.00	mg/L	108	108	70-130	0.0	0-20		LFM	
	31510	AMMONIA-N	ND	1.09	1.07	1.00	mg/L	109	107	70-130	1.9	0-20		LFM	
	31599	AMMONIA-N	2.73	3.69	3.69	1.00	mg/L	96	96	70-130	0.0	0-20		LFM	
	31929	AMMONIA-N	0.08	1.20	1.19	1.00	mg/L	112	111	70-130	0.9	0-20		LFM	
	32363	AMMONIA-N	0.03	1.08	1.06	1.00	mg/L	105	103	70-130	1.9	0-20		LFM	
	32815	AMMONIA-N	4.03	4.88	4.88	1.00	mg/L	85	85	70-130	0.0	0-20		LFM	
6010B_150728A															
	31506	IRON	0.08	0.13		0.050	mg/L	100		75-125	NA	0-20		LFM	
	31506	CALCIUM	63.1	88.6		26.0	mg/L	98		75-125	NA	0-20		LFM	
	31506	MAGNESIUM	36.3	61.4		26.0	mg/L	97		75-125	NA	0-20		LFM	
	31506	POTASSIUM	6.1	39.7		35.0	mg/L	96		75-125	NA	0-20		LFM	
	31516	IRON	10.57	11.40		1.00	mg/L	83		75-125	NA	0-20		LFM	
	31516	CALCIUM	41.9	67.3		26.0	mg/L	98		75-125	NA	0-20		LFM	
	31516	MAGNESIUM	31.3	56.4		26.0	mg/L	97		75-125	NA	0-20		LFM	
	31516	POTASSIUM	11.6	44.8		35.0	mg/L	95		75-125	NA	0-20		LFM	
6020_150728															
	30546	ANTIMONY	ND	0.056		0.050	mg/L	112		75-125	NA	0-20		LFM	
	30546	ARSENIC	0.007	0.058		0.050	mg/L	102		75-125	NA	0-20		LFM	
	30546	BARIUM	0.063	0.112		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	BERYLLIUM	ND	0.051		0.050	mg/L	102		75-125	NA	0-20		LFM	
	30546	CADMIUM	ND	0.050		0.050	mg/L	100		75-125	NA	0-20		LFM	
	30546	CHROMIUM	0.001	0.049		0.050	mg/L	96		75-125	NA	0-20		LFM	
	30546	COBALT	0.0001	0.047		0.050	mg/L	94		75-125	NA	0-20		LFM	
	30546	COPPER	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	LEAD	0.00008	0.048		0.050	mg/L	96		75-125	NA	0-20		LFM	
	30546	MANGANESE	0.141	0.187		0.050	mg/L	92		75-125	NA	0-20		LFM	
	30546	NICKEL	0.001	0.050		0.050	mg/L	98		75-125	NA	0-20		LFM	
	30546	SELENIUM	0.00036	0.050		0.050	mg/L	99		75-125	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	30546	SILVER	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	30546	THALLIUM	ND	0.048		0.050	mg/L	96			75-125	NA	0-20		LFM	
	30546	VANADIUM	0.0003	0.048		0.050	mg/L	95			75-125	NA	0-20		LFM	
	30546	ZINC	0.0036	0.053		0.050	mg/L	99			75-125	NA	0-20		LFM	
	30823	ANTIMONY	ND	1.065		1.000	mg/L	107			75-125	NA	0-20		LFM	
	30823	ARSENIC	0.0017	0.994		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	BARIUM	0.013	0.993		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	BERYLLIUM	ND	0.992		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CADMIUM	ND	0.990		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	CHROMIUM	0.003	0.946		1.000	mg/L	94			75-125	NA	0-20		LFM	
	30823	COBALT	ND	1.015		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	COPPER	0.0015	0.959		1.000	mg/L	96			75-125	NA	0-20		LFM	
	30823	LEAD	ND	0.989		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	MANGANESE	0.002	1.004		1.000	mg/L	100			75-125	NA	0-20		LFM	
	30823	NICKEL	0.007	1.001		1.000	mg/L	99			75-125	NA	0-20		LFM	
	30823	SELENIUM	0.0002	0.982		1.000	mg/L	98			75-125	NA	0-20		LFM	
	30823	SILVER	ND	0.253		0.500	mg/L	51			75-125	NA	0-20	IM	LFM	
	30823	THALLIUM	ND	0.948		1.000	mg/L	95			75-125	NA	0-20		LFM	
	30823	VANADIUM	0.004	1.020		1.000	mg/L	102			75-125	NA	0-20		LFM	
	30823	ZINC	0.0015	1.000		1.000	mg/L	100			75-125	NA	0-20		LFM	
	31506	ANTIMONY	ND	0.056		0.050	mg/L	112			75-125	NA	0-20		LFM	
	31506	ARSENIC	0.0066	0.058		0.050	mg/L	103			75-125	NA	0-20		LFM	
	31506	BARIUM	0.020	0.070		0.050	mg/L	100			75-125	NA	0-20		LFM	
	31506	BERYLLIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	CADMIUM	ND	0.051		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	CHROMIUM	0.001	0.050		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	COBALT	0.0003	0.049		0.050	mg/L	97			75-125	NA	0-20		LFM	
	31506	COPPER	0.00075	0.051		0.050	mg/L	101			75-125	NA	0-20		LFM	
	31506	LEAD	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	
	31506	MANGANESE	0.016	0.0635		0.050	mg/L	95			75-125	NA	0-20		LFM	
	31506	NICKEL	0.003	0.054		0.050	mg/L	102			75-125	NA	0-20		LFM	
	31506	SELENIUM	0.0003	0.051		0.050	mg/L	101			75-125	NA	0-20		LFM	
	31506	SILVER	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	31506	THALLIUM	ND	0.049		0.050	mg/L	98			75-125	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	31506	VANADIUM	0.002	0.049		0.050	mg/L	94		75-125	NA	0-20		LFM	
	31506	ZINC	0.002	0.053		0.050	mg/L	102		75-125	NA	0-20		LFM	
	31516	ANTIMONY	ND	0.046		0.050	mg/L	92		75-125	NA	0-20		LFM	
	31516	ARSENIC	0.081	0.116		0.050	mg/L	70		75-125	NA	0-20	IM	LFM	
	31516	BARIIUM	0.039	0.077		0.050	mg/L	76		75-125	NA	0-20		LFM	
	31516	BERYLLIUM	ND	0.043		0.050	mg/L	86		75-125	NA	0-20		LFM	
	31516	CADMIUM	ND	0.043		0.050	mg/L	86		75-125	NA	0-20		LFM	
	31516	CHROMIUM	0.015	0.052		0.050	mg/L	74		75-125	NA	0-20	IM	LFM	
	31516	COBALT	0.0004	0.041		0.050	mg/L	81		75-125	NA	0-20		LFM	
	31516	COPPER	0.355	0.357		0.050	mg/L	4		75-125	NA	0-20	IS	LFM	
	31516	LEAD	0.031	0.069		0.050	mg/L	76		75-125	NA	0-20		LFM	
	31516	MANGANESE	0.128	0.147		0.050	mg/L	38		75-125	NA	0-20	IM	LFM	
	31516	NICKEL	0.0098	0.051		0.050	mg/L	82		75-125	NA	0-20		LFM	
	31516	SELENIUM	ND	0.039		0.050	mg/L	78		75-125	NA	0-20		LFM	
	31516	SILVER	ND	0.021		0.025	mg/L	84		75-125	NA	0-20		LFM	
	31516	THALLIUM	ND	0.042		0.050	mg/L	84		75-125	NA	0-20		LFM	
	31516	VANADIUM	ND	0.040		0.050	mg/L	80		75-125	NA	0-20		LFM	
8151_150715															
	31514	2,4 - D	ND	6.13		5	ug/L	123	NA	60-120	NA	0-20	HQ	LFM	
	31514	2,4 DB	ND	17.5		20	ug/L	88	NA	49-134	NA	0-20		LFM	
	31514	2,4,5 - TP (SILVEX)	ND	3.18		2.5	ug/L	127	NA	68-122	NA	0-20	HQ	LFM	
	31514	2,4,5 T	ND	3.15		2.5	ug/L	126	NA	62-128	NA	0-20		LFM	
	31514	ACIFLUORFEN	ND	3.13		2.5	ug/L	125	NA	65-125	NA	0-20		LFM	
	31514	BENTAZON	ND	6.05		5	ug/L	121	NA	67-121	NA	0-20		LFM	
	31514	DALAPON	ND	28.9		32.5	ug/L	89	NA	53-421	NA	0-20		LFM	
	31514	DICAMBA	5.0	8.48		2.5	ug/L	139	NA	66-126	NA	0-20	S	LFM	
	31514	DICHLORPROP	ND	8.90		7.5	ug/L	119	NA	63-123	NA	0-20		LFM	
	31514	DINOSEB	ND	4.53		5	ug/L	91	NA	73-127	NA	0-20		LFM	
	31514	MCPA	ND	2.83		2.5	ug/L	113	NA	49-121	NA	0-20		LFM	
	31514	MCPP	ND	2.80		2.5	ug/L	112	NA	48-126	NA	0-20		LFM	
	31514	PENTACHLOROPHENOL	ND	2.80		2.5	ug/L	112	NA	69-123	NA	0-20		LFM	
	31514	PICLORAM	ND	3.08		2.5	ug/L	123	NA	48-114	NA	0-20	HQ	LFM	
	31514	TOTAL DCPA	ND	3.30		2.5	ug/L	132	NA	48-168	NA	0-20		LFM	

8260W_150717

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				Spike	Spike	Spike		MS	MSD	MS				MSD	Qualifier		Type
				Result	Result	Conc		MS	MSD	MS				MSD			
	30546	1,1 - DICHLOROETHANE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20			LFM		
	30546	1,1 - DICHLOROETHYLENE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20			LFM		
	30546	1,1,1 - TRICHLOROETHANE	ND	4.4		4	ug/L	110	NA	70-130	NA	0-20			LFM		
	30546	1,1,1,2 - TETRACHLOROETHANE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20			LFM		
	30546	1,1,2 - TRICHLOROETHANE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20			LFM		
	30546	1,1,2,2 - TETRACHLOROETHANE	ND	4.1		4	ug/L	103	NA	70-130	NA	0-20			LFM		
	30546	1,2 - DICHLOROBENZENE (ortho)	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20			LFM		
	30546	1,2 - DICHLOROETHANE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM		
	30546	1,2 - DICHLOROPROPANE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20			LFM		
	30546	1,2,3 - TRICHLOROPROPANE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20			LFM		
	30546	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.7		4	ug/L	93	NA	70-130	NA	0-20			LFM		
	30546	1,4 - DICHLOROBENZENE (para)	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20			LFM		
	30546	BENZENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM		
	30546	BROMOCHLOROMETHANE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20			LFM		
	30546	BROMODICHLOROMETHANE	ND	3.4		4	ug/L	85	NA	70-130	NA	0-20			LFM		
	30546	BROMOFORM	ND	3.1		4	ug/L	78	NA	70-130	NA	0-20			LFM		
	30546	BROMOMETHANE	ND	5.0		4	ug/L	125	NA	70-130	NA	0-20			LFM		
	30546	CARBON TETRACHLORIDE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM		
	30546	CHLOROBENZENE	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20			LFM		
	30546	CHLOROETHANE	ND	4.7		4	ug/L	118	NA	70-130	NA	0-20			LFM		
	30546	CHLOROFORM	ND	4.0		4	ug/L	100	NA	70-130	NA	0-20			LFM		
	30546	CHLOROMETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20			LFM		
	30546	CIS - 1,2 - DICHLOROETHENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM		
	30546	CIS - 1,3 - DICHLOROPROPENE	ND	3.8		4	ug/L	95	NA	70-130	NA	0-20			LFM		
	30546	DIBROMOCHLOROMETHANE	ND	3.5		4	ug/L	88	NA	70-130	NA	0-20			LFM		
	30546	DIBROMOMETHANE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20			LFM		
	30546	ETHYLBENZENE	ND	4.1		4	ug/L	103	NA	70-130	NA	0-20			LFM		
	30546	M,P- XYLENE	ND	8.2		8	ug/L	103	NA	70-130	NA	0-20			LFM		
	30546	METHYLENE CHLORIDE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20			LFM		
	30546	O - XYLENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20			LFM		
	30546	STYRENE	ND	3.9		4	ug/L	98	NA	70-130	NA	0-20			LFM		
	30546	TETRACHLOROETHYLENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20			LFM		
	30546	TOLUENE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM		
	30546	TRANS - 1,2 - DICHLOROETHENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20			LFM		

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments	
				Spike Result	Spike Result			MS	MSD				Qualifier	Type		
	30546	TRANS - 1,3 - DICHLOROPROPENE	ND	3.6		4	ug/L	90	NA	70-130	NA	0-20			LFM	
	30546	TRICHLOROETHENE	ND	4.3		4	ug/L	108	NA	70-130	NA	0-20			LFM	
	30546	TRICHLOROFLUOROMETHANE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM	
	30546	VINYL CHLORIDE	ND	4.2		4	ug/L	105	NA	70-130	NA	0-20			LFM	
8260W_150720																
	31507	1,1 - DICHLOROETHANE	ND	5.0	4.6	4	ug/L	125	115	70-130	8.3	0-20			LFM	
	31507	1,1 - DICHLOROETHYLENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20			LFM	
	31507	1,1,1 - TRICHLOROETHANE	ND	4.8	4.6	4	ug/L	120	115	70-130	4.3	0-20			LFM	
	31507	1,1,1,2 - TETRACHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20			LFM	
	31507	1,1,2 - TRICHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20			LFM	
	31507	1,1,2,2 - TETRACHLOROETHANE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20			LFM	
	31507	1,2 - DICHLOROBENZENE (ortho)	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20			LFM	
	31507	1,2 - DICHLOROETHANE	ND	4.9	4.7	4	ug/L	123	118	70-130	4.2	0-20			LFM	
	31507	1,2 - DICHLOROPROPANE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20			LFM	
	31507	1,2,3 - TRICHLOROPROPANE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20			LFM	
	31507	1,2-DIBROMO-3-CHLOROPROPANE	ND	3.6	3.5	4	ug/L	90	88	70-130	2.8	0-20			LFM	
	31507	1,4 - DICHLOROBENZENE (para)	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0	0-20			LFM	
	31507	BENZENE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20			LFM	
	31507	BROMOCHLOROMETHANE	ND	4.6	4.5	4	ug/L	115	113	70-130	2.2	0-20			LFM	
	31507	BROMODICHLOROMETHANE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20			LFM	
	31507	BROMOFORM	ND	3.4	3.2	4	ug/L	85	80	70-130	6.1	0-20			LFM	
	31507	BROMOMETHANE	ND	1.6	1.6	4	ug/L	40	40	70-130	0.0	0-20	M2		LFM	
	31507	CARBON TETRACHLORIDE	ND	4.9	4.7	4	ug/L	123	118	70-130	4.2	0-20			LFM	
	31507	CHLOROBENZENE	ND	4.4	4.4	4	ug/L	110	110	70-130	0.0	0-20			LFM	
	31507	CHLOROETHANE	ND	4.9	4.5	4	ug/L	123	113	70-130	8.5	0-20			LFM	
	31507	CHLOROFORM	ND	4.7	4.5	4	ug/L	118	113	70-130	4.3	0-20			LFM	
	31507	CHLOROMETHANE	ND	4.1	4.2	4	ug/L	103	105	70-130	2.4	0-20			LFM	
	31507	CIS - 1,2 - DICHLOROETHENE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20			LFM	
	31507	CIS - 1,3 - DICHLOROPROPENE	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20			LFM	
	31507	DIBROMOCHLOROMETHANE	ND	3.9	4.0	4	ug/L	98	100	70-130	2.5	0-20			LFM	
	31507	DIBROMOMETHANE	ND	4.6	4.4	4	ug/L	115	110	70-130	4.4	0-20			LFM	
	31507	ETHYLBENZENE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20			LFM	
	31507	M,P- XYLENE	ND	8.5	8.5	8	ug/L	106	106	70-130	0.0	0-20			LFM	
	31507	METHYLENE CHLORIDE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20			LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	31507	O - XYLENE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM	
	31507	STYRENE	ND	4.2	4.0	4	ug/L	105	100	70-130	4.9	0-20		LFM	
	31507	TETRACHLOROETHYLENE	ND	4.8	4.7	4	ug/L	120	118	70-130	2.1	0-20		LFM	
	31507	TOLUENE	ND	4.6	4.8	4	ug/L	115	120	70-130	4.3	0-20		LFM	
	31507	TRANS - 1,2 - DICHLOROETHENE	ND	4.7	4.5	4	ug/L	118	113	70-130	4.3	0-20		LFM	
	31507	TRANS - 1,3 - DICHLOROPROPENE	ND	3.8	3.7	4	ug/L	95	93	70-130	2.7	0-20		LFM	
	31507	TRICHLOROETHENE	ND	4.7	4.7	4	ug/L	118	118	70-130	0.0	0-20		LFM	
	31507	TRICHLOROFLUOROMETHANE	ND	4.6	4.2	4	ug/L	115	105	70-130	9.1	0-20		LFM	
	31507	VINYL CHLORIDE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20		LFM	
COD_150714															
	31210	CHEMICAL OXYGEN DEMAND	6	57	54	50	mg/L	102	96	70-130	6.1	0-20		LFM	
	31513	CHEMICAL OXYGEN DEMAND	7	56	53	50	mg/L	98	92	70-130	6.3	0-20		LFM	
	31517	CHEMICAL OXYGEN DEMAND	10	58	57	50	mg/L	96	94	70-130	2.1	0-20		LFM	
I150710A															
	31206	CHLORIDE	41.4	41.9		1	mg/L	50	NA	90-110	NA	0-20	IS	LFM	
	31206	FLUORIDE	ND	1.06		1	mg/L	106	NA	90-110	NA	0-20		LFM	
	31206	SULFATE	39.4	40.7		2	mg/L	65	NA	90-110	NA	0-20	IS	LFM	
	31206	TOTAL NITRATE/NITRITE	0.5	2.53		2	mg/L	102	NA	90-110	NA	0-20		LFM	
	31294	FLUORIDE	ND	1.03		1	mg/L	103	NA	90-110	NA	0-20		LFM	
	31508	CHLORIDE	33	33.4		1	mg/L	40	NA	90-110	NA	0-20	IS	LFM	
	31508	FLUORIDE	0.14	1.06		1	mg/L	92	NA	90-110	NA	0-20		LFM	
	31508	SULFATE	15.9	17.7		2	mg/L	90	NA	90-110	NA	0-20		LFM	
	31508	TOTAL NITRATE/NITRITE	ND	2.06		2	mg/L	103	NA	90-110	NA	0-20		LFM	
SIM_150715															
	31507	1,2 - DIBROMOETHANE (EDB SIM)	ND	0.186	0.189	0.2	ug/L	93	95	70-130	1.6	0-20		LFM	
	31507	ACRYLONITRILE (SIM)	ND	0.194	0.224	0.2	ug/L	97	112	70-130	14.4	0-20		LFM	
	31507	VINYL CHLORIDE (SIM)	ND	0.237	0.203	0.2	ug/L	119	102	70-130	15.5	0-20		LFM	
TOC_150716															
	31160	TOTAL ORGANIC CARBON	1.04	4.89		4.00	mg/L	96		70-130	NA	0-20		LFM	
	31169	TOTAL ORGANIC CARBON	1.02	4.73		4.00	mg/L	93		70-130	NA	0-20		LFM	
	31212	TOTAL ORGANIC CARBON	1.53	5.25		4.00	mg/L	93		70-130	NA	0-20		LFM	
	31514	TOTAL ORGANIC CARBON	0.94	4.65		4.00	mg/L	93		70-130	NA	0-20		LFM	
	31610	TOTAL ORGANIC CARBON	0.99	4.80		4.00	mg/L	95		70-130	NA	0-20		LFM	

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Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-14096

Report Date: 08/06/15

Qualifier	Definition
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.
E	Indicates that the concentration exceeds the calibration range. Values which are outside the calibration curve are estimates only.
HQ	High QCS recovery due to increased detector response of the sample extract. The continuing calibration checks are within acceptance limits.
HR	High QCS recovery due to increased detector response No sample detections, therefore, no further action taken for this analysis set.
IEV	Acceptance criteria do not apply to estimated values
IM	Matrix induced bias assumed
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
m8	Acceptance limits do not apply fortified at or below the QL and MRL.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Qualifier Definitions

Reference Number: 15-14096
Report Date: 08/06/15

Qualifier	Definition

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

15-14096
31506 - 31517



REPORT TO: **SCS ENGINEERS**
 ADDRESS: **2405 140TH AVE. NE STE 107**
 CITY: **BELLEVUE** STATE: **WA** ZIP: **98005**
 ATTN: **ELENA RAMIREZ**
 PHONE: **425-746-4600** FAX: **425-746-6747**
 EMAIL: **eramirez@scsengineers.com**
 PROJECT NAME: **COUPEVILLE LANDFILL**

BILL TO: **ISLAND COUNTY SOLID WASTE**
 ADDRESS: **PO Box 5000**
 CITY: **Coupeville** STATE: **WA** ZIP: **98239**
 PHONE: **360-678-7338** FAX:
 P.O.#:
 VISA MC A/E EXPRES /
 CARD#

15-14096
31506 - 31517

CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

Wilsonville Lab (800-755-9295)
 1620 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Microbiology (888-755-1212)
 805 W. Orchard Dr. Suite 4 Beilingham, WA 98225

Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-755-1212)
 805 W. Orchard Dr. Suite 4 Beilingham, WA 98225

9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3RD St. Corvallis, OR 97333

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ.
 EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

SAMPLE ID	LOCATION	GRAV/COMP.	SAMPLE MATRIX *	DATE	TIME	ANALYSIS REQUESTED		NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
						Standard	Half-Time		
1	0715-21	Coupeville Landfill	G	7/9/15	1009	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	looker #1 = 9.2°C
2	0715-22	Coupeville Landfill	G		1102	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
3	0715-23	Coupeville Landfill	G		1347	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	looker #2 = 8.6°C
4	0715-24	Coupeville Landfill	G		1452	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
5	0715-25	Coupeville Landfill	G		1609	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
6	0715-26	Coupeville Landfill	G		1700	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
7	0715-27	Coupeville Landfill	G	7/10/15	930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	COOLER #3 = 4.2°C
8	0715-28	Coupeville Landfill	G		930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
9	0715-29	Coupeville Landfill	G		1040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13	
10	0715-30	Coupeville Landfill	G		1150	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
SAMPLED BY: <u>Steve Gardner</u>						PHONE: <u>512-940-2990</u>	FAX: <u></u>	112 TOTAL CONTAINERS	

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER *
 DW- DRINKING WATER SW- SURFACE WATER WW- WASTE WATER S- SOIL OL- OIL
 OTHER _____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>Steve Gardner</u>	7/10/15	1630	<u>[Signature]</u>	7-10-15	1630

CUSTOMY SEALS INTACT YES NO N/A
 SAMPLE TEMP _____ °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO N/A

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)



Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite 1W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	REF#	FOR LAB USE ONLY
ADDRESS: 2405 140 TH AVE. NE STE 107	ADDRESS: PO Box 5000	CHECK REGULATORY PROGRAM	
CITY: BELLEVUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	<input type="checkbox"/> SAFE DRINKING WATER ACT	
ATTN: ELENA RAMIREZ	PHONE: 360-678-7338 FAX:	<input type="checkbox"/> CLEAN WATER ACT	
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#:	<input type="checkbox"/> RCRA / CERCLA	
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> M/C <input type="checkbox"/> A/E	<input type="checkbox"/> OTHER	
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	EXPIRES /	

- INSTRUCTIONS**
- USE ONE LINE PER SAMPLE LOCATION.
 - BE SPECIFIC IN TEST REQUESTS.
 - NEW LIST EACH METAL INDIVIDUALLY. NEW
 - CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
 - ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

STANDARD

HALF-TIME (50% SURCHARGE)

QUICKEST (100% SURCHARGE) (PHONE CALL REQ.)

EMERGENCY (PHONE CALL REQUIRED)

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3,COD	8260B	8260SIM	Chloride, Sulfate,TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1 0715- 31	Coupeville Landfill	G	GW	7/10/15	1300	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2 0715- 32	Coupeville Landfill	G	GW	7/10/15	1340	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
3 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 0715-	Coupeville Landfill	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
SAMPLED BY: Sam Grubar		PHONE: 612-940-2930		FAX:		EMAIL: sgrubar@scsengineers.com		22		TOTAL CONTAINERS					

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W- WATER * DW- DRINKING WATER SW- SURFACE WATER GW- GROUND WATER WW- WASTE WATER S- SOIL OL- OIL

RELINQUISHED BY: *[Signature]* DATE: 7/10/15 TIME: 1630 RECEIVED BY: DATE: TIME:

CUSTOMY SEALS INTACT YES NO N/A

SAMPLE TEMP _____ °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A

SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO 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: 580-51618-1

Client Project/Site: CSWF Washington

For:

SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Eric Sonsthagen



Authorized for release by:
8/13/2015 2:16:14 PM

Christabel Escarez, Project Manager I
(253)922-2310
christabel.escarez@testamericainc.com

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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.

1

2

3

4

5

6

7

8

9

10

11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	13
Chronicle	18
Certification Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Job ID: 580-51618-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-51618-1

Comments

No additional comments.

Receipt

The samples were received on 7/13/2015 2:50 PM; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 5.9° C.

GC/MS VOA

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 195779 recovered outside control limits for the following analytes: Chloroethane and 2-Butanone.

Method(s) 8260B: Acetone reanalysis of the following samples were performed outside of the analytical holding time: CSWF-070915-01 (580-51618-1), CSWF-070915-02 (580-51618-2), CSWF-070915-03 (580-51618-3) and Trip Blank (580-51618-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Definitions/Glossary

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
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.
α	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 Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-01

Lab Sample ID: 580-51618-1

Date Collected: 07/09/15 14:52

Matrix: Water

Date Received: 07/13/15 14:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30	ug/L			07/23/15 17:59	1
Vinyl chloride	ND		0.020	ug/L			07/23/15 17:59	1
Bromomethane	ND		1.0	ug/L			07/23/15 17:59	1
Chloroethane	ND	*	0.50	ug/L			07/23/15 17:59	1
Trichlorofluoromethane	ND		0.50	ug/L			07/23/15 17:59	1
1,1-Dichloroethene	ND		0.10	ug/L			07/23/15 17:59	1
Methyl iodide	ND		0.50	ug/L			07/23/15 17:59	1
Carbon disulfide	ND		0.20	ug/L			07/23/15 17:59	1
Methylene Chloride	ND		0.50	ug/L			07/23/15 17:59	1
Acrylonitrile	ND		5.0	ug/L			07/23/15 17:59	1
Vinyl acetate	ND		1.0	ug/L			07/23/15 17:59	1
trans-1,2-Dichloroethene	ND		0.20	ug/L			07/23/15 17:59	1
1,1-Dichloroethane	ND		0.20	ug/L			07/23/15 17:59	1
cis-1,2-Dichloroethene	ND		0.20	ug/L			07/23/15 17:59	1
2-Butanone	ND	*	15	ug/L			07/23/15 17:59	1
Bromochloromethane	ND		0.20	ug/L			07/23/15 17:59	1
Chloroform	ND		0.20	ug/L			07/23/15 17:59	1
1,1,1-Trichloroethane	ND		0.20	ug/L			07/23/15 17:59	1
Carbon tetrachloride	ND		0.20	ug/L			07/23/15 17:59	1
Benzene	ND		0.20	ug/L			07/23/15 17:59	1
1,2-Dichloroethane	ND		0.20	ug/L			07/23/15 17:59	1
Trichloroethene	ND		0.20	ug/L			07/23/15 17:59	1
1,2-Dichloropropane	ND		0.20	ug/L			07/23/15 17:59	1
Dibromomethane	ND		0.20	ug/L			07/23/15 17:59	1
Bromodichloromethane	ND		0.20	ug/L			07/23/15 17:59	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			07/23/15 17:59	1
4-Methyl-2-pentanone	ND		5.0	ug/L			07/23/15 17:59	1
Toluene	ND		0.20	ug/L			07/23/15 17:59	1
trans-1,3-Dichloropropene	ND		0.20	ug/L			07/23/15 17:59	1
1,1,2-Trichloroethane	ND		0.20	ug/L			07/23/15 17:59	1
Tetrachloroethene	ND		0.50	ug/L			07/23/15 17:59	1
2-Hexanone	ND		2.0	ug/L			07/23/15 17:59	1
Dibromochloromethane	ND		0.20	ug/L			07/23/15 17:59	1
1,2-Dibromoethane	ND		0.10	ug/L			07/23/15 17:59	1
Chlorobenzene	ND		0.20	ug/L			07/23/15 17:59	1
1,1,1,2-Tetrachloroethane	ND		0.20	ug/L			07/23/15 17:59	1
Ethylbenzene	ND		0.20	ug/L			07/23/15 17:59	1
m,p-Xylene	ND		0.50	ug/L			07/23/15 17:59	1
o-Xylene	ND		0.50	ug/L			07/23/15 17:59	1
Styrene	ND		0.50	ug/L			07/23/15 17:59	1
Bromoform	ND		0.50	ug/L			07/23/15 17:59	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			07/23/15 17:59	1
1,2,3-Trichloropropane	ND		0.20	ug/L			07/23/15 17:59	1
trans-1,4-Dichloro-2-butene	ND		2.0	ug/L			07/23/15 17:59	1
1,4-Dichlorobenzene	ND		0.30	ug/L			07/23/15 17:59	1
1,2-Dichlorobenzene	ND		0.30	ug/L			07/23/15 17:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			07/23/15 17:59	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-01

Lab Sample ID: 580-51618-1

Date Collected: 07/09/15 14:52

Matrix: Water

Date Received: 07/13/15 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		75 - 125		07/23/15 17:59	1
Trifluorotoluene (Surr)	105		80 - 127		07/23/15 17:59	1
Dibromofluoromethane (Surr)	91		85 - 115		07/23/15 17:59	1
4-Bromofluorobenzene (Surr)	99		75 - 120		07/23/15 17:59	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 128		07/23/15 17:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			08/12/15 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		75 - 125		08/12/15 20:39	1
Trifluorotoluene (Surr)	109		80 - 127		08/12/15 20:39	1
Dibromofluoromethane (Surr)	103		85 - 115		08/12/15 20:39	1
4-Bromofluorobenzene (Surr)	108		75 - 120		08/12/15 20:39	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 128		08/12/15 20:39	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-02

Lab Sample ID: 580-51618-2

Date Collected: 07/10/15 11:50

Matrix: Water

Date Received: 07/13/15 14:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/23/15 18:25	1
Vinyl chloride	0.27		0.020		ug/L			07/23/15 18:25	1
Bromomethane	ND		1.0		ug/L			07/23/15 18:25	1
Chloroethane	ND *		0.50		ug/L			07/23/15 18:25	1
Trichlorofluoromethane	1.5		0.50		ug/L			07/23/15 18:25	1
1,1-Dichloroethene	ND		0.10		ug/L			07/23/15 18:25	1
Methyl iodide	ND		0.50		ug/L			07/23/15 18:25	1
Carbon disulfide	ND		0.20		ug/L			07/23/15 18:25	1
Methylene Chloride	ND		0.50		ug/L			07/23/15 18:25	1
Acrylonitrile	ND		5.0		ug/L			07/23/15 18:25	1
Vinyl acetate	ND		1.0		ug/L			07/23/15 18:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 18:25	1
1,1-Dichloroethane	ND		0.20		ug/L			07/23/15 18:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 18:25	1
2-Butanone	ND *		15		ug/L			07/23/15 18:25	1
Bromochloromethane	ND		0.20		ug/L			07/23/15 18:25	1
Chloroform	ND		0.20		ug/L			07/23/15 18:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/23/15 18:25	1
Carbon tetrachloride	ND		0.20		ug/L			07/23/15 18:25	1
Benzene	ND		0.20		ug/L			07/23/15 18:25	1
1,2-Dichloroethane	ND		0.20		ug/L			07/23/15 18:25	1
Trichloroethene	ND		0.20		ug/L			07/23/15 18:25	1
1,2-Dichloropropane	ND		0.20		ug/L			07/23/15 18:25	1
Dibromomethane	ND		0.20		ug/L			07/23/15 18:25	1
Bromodichloromethane	ND		0.20		ug/L			07/23/15 18:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/23/15 18:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/23/15 18:25	1
Toluene	ND		0.20		ug/L			07/23/15 18:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/23/15 18:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/23/15 18:25	1
Tetrachloroethene	ND		0.50		ug/L			07/23/15 18:25	1
2-Hexanone	ND		2.0		ug/L			07/23/15 18:25	1
Dibromochloromethane	ND		0.20		ug/L			07/23/15 18:25	1
1,2-Dibromoethane	ND		0.10		ug/L			07/23/15 18:25	1
Chlorobenzene	ND		0.20		ug/L			07/23/15 18:25	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 18:25	1
Ethylbenzene	ND		0.20		ug/L			07/23/15 18:25	1
m,p-Xylene	ND		0.50		ug/L			07/23/15 18:25	1
o-Xylene	ND		0.50		ug/L			07/23/15 18:25	1
Styrene	ND		0.50		ug/L			07/23/15 18:25	1
Bromoform	ND		0.50		ug/L			07/23/15 18:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 18:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/23/15 18:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/23/15 18:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/23/15 18:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/23/15 18:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 18:25	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-02

Lab Sample ID: 580-51618-2

Date Collected: 07/10/15 11:50

Matrix: Water

Date Received: 07/13/15 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		75 - 125		07/23/15 18:25	1
Trifluorotoluene (Surr)	107		80 - 127		07/23/15 18:25	1
Dibromofluoromethane (Surr)	91		85 - 115		07/23/15 18:25	1
4-Bromofluorobenzene (Surr)	99		75 - 120		07/23/15 18:25	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 128		07/23/15 18:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			08/12/15 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		75 - 125		08/12/15 21:05	1
Trifluorotoluene (Surr)	105		80 - 127		08/12/15 21:05	1
Dibromofluoromethane (Surr)	107		85 - 115		08/12/15 21:05	1
4-Bromofluorobenzene (Surr)	112		75 - 120		08/12/15 21:05	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		08/12/15 21:05	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-03

Lab Sample ID: 580-51618-3

Date Collected: 07/10/15 13:40

Matrix: Water

Date Received: 07/13/15 14:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/23/15 18:51	1
Vinyl chloride	21		0.020		ug/L			07/23/15 18:51	1
Bromomethane	ND		1.0		ug/L			07/23/15 18:51	1
Chloroethane	ND	*	0.50		ug/L			07/23/15 18:51	1
Trichlorofluoromethane	1.5		0.50		ug/L			07/23/15 18:51	1
1,1-Dichloroethene	ND		0.10		ug/L			07/23/15 18:51	1
Methyl iodide	ND		0.50		ug/L			07/23/15 18:51	1
Carbon disulfide	ND		0.20		ug/L			07/23/15 18:51	1
Methylene Chloride	0.85		0.50		ug/L			07/23/15 18:51	1
Acrylonitrile	ND		5.0		ug/L			07/23/15 18:51	1
Vinyl acetate	ND		1.0		ug/L			07/23/15 18:51	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 18:51	1
1,1-Dichloroethane	ND		0.20		ug/L			07/23/15 18:51	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 18:51	1
2-Butanone	ND	*	15		ug/L			07/23/15 18:51	1
Bromochloromethane	ND		0.20		ug/L			07/23/15 18:51	1
Chloroform	ND		0.20		ug/L			07/23/15 18:51	1
1,1,1-Trichloroethane	0.31		0.20		ug/L			07/23/15 18:51	1
Carbon tetrachloride	ND		0.20		ug/L			07/23/15 18:51	1
Benzene	ND		0.20		ug/L			07/23/15 18:51	1
1,2-Dichloroethane	ND		0.20		ug/L			07/23/15 18:51	1
Trichloroethene	ND		0.20		ug/L			07/23/15 18:51	1
1,2-Dichloropropane	ND		0.20		ug/L			07/23/15 18:51	1
Dibromomethane	ND		0.20		ug/L			07/23/15 18:51	1
Bromodichloromethane	ND		0.20		ug/L			07/23/15 18:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/23/15 18:51	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/23/15 18:51	1
Toluene	ND		0.20		ug/L			07/23/15 18:51	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/23/15 18:51	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/23/15 18:51	1
Tetrachloroethene	ND		0.50		ug/L			07/23/15 18:51	1
2-Hexanone	ND		2.0		ug/L			07/23/15 18:51	1
Dibromochloromethane	ND		0.20		ug/L			07/23/15 18:51	1
1,2-Dibromoethane	ND		0.10		ug/L			07/23/15 18:51	1
Chlorobenzene	ND		0.20		ug/L			07/23/15 18:51	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 18:51	1
Ethylbenzene	ND		0.20		ug/L			07/23/15 18:51	1
m,p-Xylene	ND		0.50		ug/L			07/23/15 18:51	1
o-Xylene	ND		0.50		ug/L			07/23/15 18:51	1
Styrene	ND		0.50		ug/L			07/23/15 18:51	1
Bromoform	ND		0.50		ug/L			07/23/15 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 18:51	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/23/15 18:51	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/23/15 18:51	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/23/15 18:51	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/23/15 18:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 18:51	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-03

Lab Sample ID: 580-51618-3

Date Collected: 07/10/15 13:40

Matrix: Water

Date Received: 07/13/15 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		75 - 125		07/23/15 18:51	1
Trifluorotoluene (Surr)	104		80 - 127		07/23/15 18:51	1
Dibromofluoromethane (Surr)	91		85 - 115		07/23/15 18:51	1
4-Bromofluorobenzene (Surr)	99		75 - 120		07/23/15 18:51	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 128		07/23/15 18:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			08/12/15 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		75 - 125		08/12/15 21:31	1
Trifluorotoluene (Surr)	109		80 - 127		08/12/15 21:31	1
Dibromofluoromethane (Surr)	105		85 - 115		08/12/15 21:31	1
4-Bromofluorobenzene (Surr)	109		75 - 120		08/12/15 21:31	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 128		08/12/15 21:31	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: Trip Blank

Lab Sample ID: 580-51618-4

Date Collected: 07/09/15 00:01

Matrix: Water

Date Received: 07/13/15 14:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/23/15 17:06	1
Vinyl chloride	ND		0.020		ug/L			07/23/15 17:06	1
Bromomethane	ND		1.0		ug/L			07/23/15 17:06	1
Chloroethane	ND	*	0.50		ug/L			07/23/15 17:06	1
Trichlorofluoromethane	ND		0.50		ug/L			07/23/15 17:06	1
1,1-Dichloroethene	ND		0.10		ug/L			07/23/15 17:06	1
Methyl iodide	ND		0.50		ug/L			07/23/15 17:06	1
Carbon disulfide	ND		0.20		ug/L			07/23/15 17:06	1
Methylene Chloride	ND		0.50		ug/L			07/23/15 17:06	1
Acrylonitrile	ND		5.0		ug/L			07/23/15 17:06	1
Vinyl acetate	ND		1.0		ug/L			07/23/15 17:06	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 17:06	1
1,1-Dichloroethane	ND		0.20		ug/L			07/23/15 17:06	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 17:06	1
2-Butanone	ND	*	15		ug/L			07/23/15 17:06	1
Bromochloromethane	ND		0.20		ug/L			07/23/15 17:06	1
Chloroform	ND		0.20		ug/L			07/23/15 17:06	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/23/15 17:06	1
Carbon tetrachloride	ND		0.20		ug/L			07/23/15 17:06	1
Benzene	ND		0.20		ug/L			07/23/15 17:06	1
1,2-Dichloroethane	ND		0.20		ug/L			07/23/15 17:06	1
Trichloroethene	ND		0.20		ug/L			07/23/15 17:06	1
1,2-Dichloropropane	ND		0.20		ug/L			07/23/15 17:06	1
Dibromomethane	ND		0.20		ug/L			07/23/15 17:06	1
Bromodichloromethane	ND		0.20		ug/L			07/23/15 17:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/23/15 17:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/23/15 17:06	1
Toluene	ND		0.20		ug/L			07/23/15 17:06	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/23/15 17:06	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/23/15 17:06	1
Tetrachloroethene	ND		0.50		ug/L			07/23/15 17:06	1
2-Hexanone	ND		2.0		ug/L			07/23/15 17:06	1
Dibromochloromethane	ND		0.20		ug/L			07/23/15 17:06	1
1,2-Dibromoethane	ND		0.10		ug/L			07/23/15 17:06	1
Chlorobenzene	ND		0.20		ug/L			07/23/15 17:06	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 17:06	1
Ethylbenzene	ND		0.20		ug/L			07/23/15 17:06	1
m,p-Xylene	ND		0.50		ug/L			07/23/15 17:06	1
o-Xylene	ND		0.50		ug/L			07/23/15 17:06	1
Styrene	ND		0.50		ug/L			07/23/15 17:06	1
Bromoform	ND		0.50		ug/L			07/23/15 17:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 17:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/23/15 17:06	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/23/15 17:06	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/23/15 17:06	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/23/15 17:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 17:06	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: Trip Blank

Lab Sample ID: 580-51618-4

Date Collected: 07/09/15 00:01

Matrix: Water

Date Received: 07/13/15 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		75 - 125		07/23/15 17:06	1
Trifluorotoluene (Surr)	109		80 - 127		07/23/15 17:06	1
Dibromofluoromethane (Surr)	89		85 - 115		07/23/15 17:06	1
4-Bromofluorobenzene (Surr)	99		75 - 120		07/23/15 17:06	1
1,2-Dichloroethane-d4 (Surr)	78		70 - 128		07/23/15 17:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			08/12/15 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		75 - 125		08/12/15 20:12	1
Trifluorotoluene (Surr)	109		80 - 127		08/12/15 20:12	1
Dibromofluoromethane (Surr)	105		85 - 115		08/12/15 20:12	1
4-Bromofluorobenzene (Surr)	111		75 - 120		08/12/15 20:12	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 128		08/12/15 20:12	1

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-195779/4

Matrix: Water

Analysis Batch: 195779

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			07/23/15 14:08	1
Vinyl chloride	ND		0.020		ug/L			07/23/15 14:08	1
Bromomethane	ND		1.0		ug/L			07/23/15 14:08	1
Chloroethane	ND		0.50		ug/L			07/23/15 14:08	1
Trichlorofluoromethane	ND		0.50		ug/L			07/23/15 14:08	1
1,1-Dichloroethene	ND		0.10		ug/L			07/23/15 14:08	1
Methyl iodide	ND		0.50		ug/L			07/23/15 14:08	1
Carbon disulfide	ND		0.20		ug/L			07/23/15 14:08	1
Acetone	ND		2.0		ug/L			07/23/15 14:08	1
Methylene Chloride	ND		0.50		ug/L			07/23/15 14:08	1
Acrylonitrile	ND		5.0		ug/L			07/23/15 14:08	1
Vinyl acetate	ND		1.0		ug/L			07/23/15 14:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 14:08	1
1,1-Dichloroethane	ND		0.20		ug/L			07/23/15 14:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			07/23/15 14:08	1
2-Butanone	ND		15		ug/L			07/23/15 14:08	1
Bromochloromethane	ND		0.20		ug/L			07/23/15 14:08	1
Chloroform	ND		0.20		ug/L			07/23/15 14:08	1
1,1,1-Trichloroethane	ND		0.20		ug/L			07/23/15 14:08	1
Carbon tetrachloride	ND		0.20		ug/L			07/23/15 14:08	1
Benzene	ND		0.20		ug/L			07/23/15 14:08	1
1,2-Dichloroethane	ND		0.20		ug/L			07/23/15 14:08	1
Trichloroethene	ND		0.20		ug/L			07/23/15 14:08	1
1,2-Dichloropropane	ND		0.20		ug/L			07/23/15 14:08	1
Dibromomethane	ND		0.20		ug/L			07/23/15 14:08	1
Bromodichloromethane	ND		0.20		ug/L			07/23/15 14:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/23/15 14:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			07/23/15 14:08	1
Toluene	ND		0.20		ug/L			07/23/15 14:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			07/23/15 14:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			07/23/15 14:08	1
Tetrachloroethene	ND		0.50		ug/L			07/23/15 14:08	1
2-Hexanone	ND		2.0		ug/L			07/23/15 14:08	1
Dibromochloromethane	ND		0.20		ug/L			07/23/15 14:08	1
1,2-Dibromoethane	ND		0.10		ug/L			07/23/15 14:08	1
Chlorobenzene	ND		0.20		ug/L			07/23/15 14:08	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 14:08	1
Ethylbenzene	ND		0.20		ug/L			07/23/15 14:08	1
m,p-Xylene	ND		0.50		ug/L			07/23/15 14:08	1
o-Xylene	ND		0.50		ug/L			07/23/15 14:08	1
Styrene	ND		0.50		ug/L			07/23/15 14:08	1
Bromoform	ND		0.50		ug/L			07/23/15 14:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			07/23/15 14:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			07/23/15 14:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			07/23/15 14:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			07/23/15 14:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			07/23/15 14:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			07/23/15 14:08	1

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-195779/4
Matrix: Water
Analysis Batch: 195779

Client Sample ID: Method Blank
Prep Type: Total/NA

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	106		75 - 125		07/23/15 14:08	1
<i>Trifluorotoluene (Surr)</i>	108		80 - 127		07/23/15 14:08	1
<i>Dibromofluoromethane (Surr)</i>	87		85 - 115		07/23/15 14:08	1
<i>4-Bromofluorobenzene (Surr)</i>	100		75 - 120		07/23/15 14:08	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	78		70 - 128		07/23/15 14:08	1

Lab Sample ID: LCS 580-195779/5
Matrix: Water
Analysis Batch: 195779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>
Chloromethane	6.26	7.21		ug/L		115	50 - 140
Vinyl chloride	6.25	6.70		ug/L		107	65 - 140
Bromomethane	6.24	7.56		ug/L		121	70 - 135
Chloroethane	6.25	6.69		ug/L		107	75 - 140
Trichlorofluoromethane	6.26	7.56		ug/L		121	30 - 180
1,1-Dichloroethene	5.00	4.91		ug/L		98	70 - 150
Methyl iodide	5.00	5.99		ug/L		120	60 - 160
Carbon disulfide	5.00	5.28		ug/L		106	65 - 160
Methylene Chloride	5.00	4.93		ug/L		99	60 - 145
Acrylonitrile	50.0	38.1		ug/L		76	65 - 150
Vinyl acetate	12.5	12.3		ug/L		98	30 - 200
trans-1,2-Dichloroethene	5.00	5.62		ug/L		112	80 - 140
1,1-Dichloroethane	5.00	4.98		ug/L		100	75 - 135
cis-1,2-Dichloroethene	5.00	5.24		ug/L		105	80 - 130
2-Butanone	20.0	ND		ug/L		54	20 - 200
Bromochloromethane	5.00	5.81		ug/L		116	80 - 125
Chloroform	5.00	5.04		ug/L		101	80 - 130
1,1,1-Trichloroethane	5.00	5.93		ug/L		119	80 - 140
Carbon tetrachloride	5.00	6.21		ug/L		124	75 - 140
Benzene	5.00	5.02		ug/L		100	80 - 120
1,2-Dichloroethane	5.00	4.96		ug/L		99	80 - 140
Trichloroethene	5.00	5.99		ug/L		120	80 - 130
1,2-Dichloropropane	5.00	4.59		ug/L		92	80 - 120
Dibromomethane	5.00	5.95		ug/L		119	80 - 130
Bromodichloromethane	5.00	5.28		ug/L		106	80 - 125
cis-1,3-Dichloropropene	5.00	5.73		ug/L		115	70 - 120
4-Methyl-2-pentanone	20.0	17.3		ug/L		87	55 - 135
Toluene	5.00	5.34		ug/L		107	80 - 120
trans-1,3-Dichloropropene	5.00	5.61		ug/L		112	60 - 140
1,1,2-Trichloroethane	5.00	5.06		ug/L		101	80 - 130
Tetrachloroethene	5.00	8.74		ug/L		175	40 - 180
2-Hexanone	20.0	18.0		ug/L		90	52 - 160
Dibromochloromethane	5.00	5.92		ug/L		118	70 - 120
1,2-Dibromoethane	5.00	5.17		ug/L		103	70 - 130
Chlorobenzene	5.00	5.26		ug/L		105	80 - 120
1,1,1,2-Tetrachloroethane	5.00	5.95		ug/L		119	75 - 125
Ethylbenzene	5.00	5.27		ug/L		105	80 - 125

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-195779/5
Matrix: Water
Analysis Batch: 195779

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	5.00	5.60		ug/L		112	80 - 130
o-Xylene	5.00	5.57		ug/L		111	80 - 120
Styrene	5.00	5.75		ug/L		115	75 - 130
Bromoform	5.00	5.38		ug/L		108	65 - 130
1,1,2,2-Tetrachloroethane	5.00	4.24		ug/L		85	75 - 125
1,2,3-Trichloropropane	5.00	5.05		ug/L		101	75 - 120
trans-1,4-Dichloro-2-butene	5.00	4.29		ug/L		86	40 - 140
1,4-Dichlorobenzene	5.00	5.22		ug/L		104	80 - 120
1,2-Dichlorobenzene	5.00	5.23		ug/L		105	80 - 130
1,2-Dibromo-3-Chloropropane	5.00	4.91		ug/L		98	55 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		75 - 125
Trifluorotoluene (Surr)	103		80 - 127
Dibromofluoromethane (Surr)	91		85 - 115
4-Bromofluorobenzene (Surr)	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	79		70 - 128

Lab Sample ID: LCSD 580-195779/6
Matrix: Water
Analysis Batch: 195779

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	6.26	7.21		ug/L		115	50 - 140	0	20
Vinyl chloride	6.25	6.84		ug/L		109	65 - 140	2	20
Bromomethane	6.24	7.76		ug/L		124	70 - 135	3	20
Chloroethane	6.25	5.24	*	ug/L		84	75 - 140	24	20
Trichlorofluoromethane	6.26	7.24		ug/L		116	30 - 180	4	20
1,1-Dichloroethene	5.00	4.78		ug/L		96	70 - 150	3	20
Methyl iodide	5.00	5.86		ug/L		117	60 - 160	2	20
Carbon disulfide	5.00	5.14		ug/L		103	65 - 160	3	20
Methylene Chloride	5.00	4.63		ug/L		93	60 - 145	6	20
Acrylonitrile	50.0	36.3		ug/L		73	65 - 150	5	20
Vinyl acetate	12.5	12.0		ug/L		96	30 - 200	2	20
trans-1,2-Dichloroethene	5.00	5.49		ug/L		110	80 - 140	2	20
1,1-Dichloroethane	5.00	4.82		ug/L		96	75 - 135	3	20
cis-1,2-Dichloroethene	5.00	5.24		ug/L		105	80 - 130	0	20
2-Butanone	20.0	15.1	*	ug/L		75	20 - 200	33	20
Bromochloromethane	5.00	5.67		ug/L		113	80 - 125	2	20
Chloroform	5.00	4.91		ug/L		98	80 - 130	3	20
1,1,1-Trichloroethane	5.00	5.73		ug/L		115	80 - 140	3	20
Carbon tetrachloride	5.00	6.13		ug/L		123	75 - 140	1	20
Benzene	5.00	4.95		ug/L		99	80 - 120	1	20
1,2-Dichloroethane	5.00	4.70		ug/L		94	80 - 140	5	20
Trichloroethene	5.00	5.93		ug/L		119	80 - 130	1	20
1,2-Dichloropropane	5.00	4.48		ug/L		90	80 - 120	2	20
Dibromomethane	5.00	5.70		ug/L		114	80 - 130	4	20
Bromodichloromethane	5.00	5.26		ug/L		105	80 - 125	0	20

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-195779/6
Matrix: Water
Analysis Batch: 195779

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	5.00	5.45		ug/L		109	70 - 120	5	20
4-Methyl-2-pentanone	20.0	17.8		ug/L		89	55 - 135	2	20
Toluene	5.00	5.16		ug/L		103	80 - 120	3	20
trans-1,3-Dichloropropene	5.00	5.49		ug/L		110	60 - 140	2	20
1,1,2-Trichloroethane	5.00	4.96		ug/L		99	80 - 130	2	20
Tetrachloroethene	5.00	8.91		ug/L		178	40 - 180	2	20
2-Hexanone	20.0	18.6		ug/L		93	52 - 160	3	20
Dibromochloromethane	5.00	5.83		ug/L		117	70 - 120	2	20
1,2-Dibromoethane	5.00	5.14		ug/L		103	70 - 130	1	20
Chlorobenzene	5.00	5.12		ug/L		102	80 - 120	3	20
1,1,1,2-Tetrachloroethane	5.00	5.64		ug/L		113	75 - 125	5	20
Ethylbenzene	5.00	5.18		ug/L		104	80 - 125	2	20
m,p-Xylene	5.00	5.36		ug/L		107	80 - 130	4	20
o-Xylene	5.00	5.44		ug/L		109	80 - 120	2	20
Styrene	5.00	5.61		ug/L		112	75 - 130	2	20
Bromoform	5.00	5.26		ug/L		105	65 - 130	2	20
1,1,2,2-Tetrachloroethane	5.00	4.30		ug/L		86	75 - 125	2	20
1,2,3-Trichloropropane	5.00	5.26		ug/L		105	75 - 120	4	20
trans-1,4-Dichloro-2-butene	5.00	4.43		ug/L		89	40 - 140	3	20
1,4-Dichlorobenzene	5.00	5.09		ug/L		102	80 - 120	2	20
1,2-Dichlorobenzene	5.00	5.21		ug/L		104	80 - 130	0	20
1,2-Dibromo-3-Chloropropane	5.00	5.42		ug/L		108	55 - 120	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Toluene-d8 (Surr)	105		75 - 125
Trifluorotoluene (Surr)	109		80 - 127
Dibromofluoromethane (Surr)	91		85 - 115
4-Bromofluorobenzene (Surr)	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	75		70 - 128

Lab Sample ID: MB 580-197703/4
Matrix: Water
Analysis Batch: 197703

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			08/12/15 16:25	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		75 - 125		08/12/15 16:25	1
Trifluorotoluene (Surr)	106		80 - 127		08/12/15 16:25	1
Dibromofluoromethane (Surr)	105		85 - 115		08/12/15 16:25	1
4-Bromofluorobenzene (Surr)	114		75 - 120		08/12/15 16:25	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 128		08/12/15 16:25	1

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
 Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-197703/5
Matrix: Water
Analysis Batch: 197703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	21.7		ug/L		108	30 - 200
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	104		75 - 125				
Trifluorotoluene (Surr)	106		80 - 127				
Dibromofluoromethane (Surr)	101		85 - 115				
4-Bromofluorobenzene (Surr)	112		75 - 120				
1,2-Dichloroethane-d4 (Surr)	101		70 - 128				

Lab Sample ID: LCSD 580-197703/6
Matrix: Water
Analysis Batch: 197703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	22.3		ug/L		111	30 - 200	3	20
Surrogate									
	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	100		75 - 125						
Trifluorotoluene (Surr)	97		80 - 127						
Dibromofluoromethane (Surr)	102		85 - 115						
4-Bromofluorobenzene (Surr)	112		75 - 120						
1,2-Dichloroethane-d4 (Surr)	103		70 - 128						

Lab Chronicle

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Client Sample ID: CSWF-070915-01

Date Collected: 07/09/15 14:52

Date Received: 07/13/15 14:50

Lab Sample ID: 580-51618-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	195779	07/23/15 17:59	CJ	TAL SEA
Total/NA	Analysis	8260B	RA	1	197703	08/12/15 20:39	D1R	TAL SEA

Client Sample ID: CSWF-070915-02

Date Collected: 07/10/15 11:50

Date Received: 07/13/15 14:50

Lab Sample ID: 580-51618-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	195779	07/23/15 18:25	CJ	TAL SEA
Total/NA	Analysis	8260B	RA	1	197703	08/12/15 21:05	D1R	TAL SEA

Client Sample ID: CSWF-070915-03

Date Collected: 07/10/15 13:40

Date Received: 07/13/15 14:50

Lab Sample ID: 580-51618-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	195779	07/23/15 18:51	CJ	TAL SEA
Total/NA	Analysis	8260B	RA	1	197703	08/12/15 21:31	D1R	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 07/09/15 00:01

Date Received: 07/13/15 14:50

Lab Sample ID: 580-51618-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	195779	07/23/15 17:06	CJ	TAL SEA
Total/NA	Analysis	8260B	RA	1	197703	08/12/15 20:12	D1R	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: CSWF Washington

TestAmerica Job ID: 580-51618-1

Laboratory: TestAmerica Seattle

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 (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-16


Sample Summary

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-51618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-51618-1	CSWF-070915-01	Water	07/09/15 14:52	07/13/15 14:50
580-51618-2	CSWF-070915-02	Water	07/10/15 11:50	07/13/15 14:50
580-51618-3	CSWF-070915-03	Water	07/10/15 13:40	07/13/15 14:50
580-51618-4	Trip Blank	Water	07/09/15 00:01	07/13/15 14:50

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- 8
- 9
- 10
- 11

Client SCS Engineers		Client Contact Elena Ramirez		Date 7/13/15	Chain of Custody Number 32364
Address 2405 140th Ave. NE Suite 107		Telephone Number (Area Code)/Fax Number (425) 289-5454		Lab Number 51618	Page 1 of 1
City Belleme		Sampler Sam Grabar		Analysis (Attach list if more space is needed)	
State WA		Billing Contact		Special Instructions/ Conditions of Receipt	
Zip Code 98005		Contract/Purchase Order/Quote No.			
Project Name and Location (State) CSWF, Washington		Matrix			
		Containers & Preservatives			
Sample I.D. and Location/Description (Containers for each sample may be combined on one line)		Air			
		Soil			
		Sed.			
		Aqueous			
		Unpres.			
		H2SO4			
		HN03			
		HCl			
		NaOH			
		ZnAc/NaOH			
CSWF-070915-01		7/9/15		1452	
CSWF-071015-02		7/10/15		1150	
CSWF-071015-03		↓		1340	
Trip blank					
w/o CS AZ					
Cooler/TB DigIR cor 59 unc PRSO					
Cooler Dsc 20W/BLL@Lab 11450					
WetPacks Packing					
Lab Court.					
					
580-51618 Chain of Custody					
Cooler <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temp: _____		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Return To Client <input type="checkbox"/> Archive For _____ Months	
Turn Around Time Required (business days) <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days		Other Standard		(A fee may be assessed if samples are retained longer than 1 month)	
1. Relinquished By Sign/Print Sam Grabar		Date 7/13/15		Time 1300	
2. Relinquished By Sign/Print Francisco Luna, Jr		Date 7/13/15		Time 1450	
3. Relinquished By Sign/Print Robin Reed		Date 7/13/15		Time 1450	
Comments					

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-51618-1

Login Number: 51618

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.	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 2015

Project Details

Project No.	04207033.08	Site Name	Island County Coupeville SWF
Data Validator	Sam Graber	Data Level	Level II
Date	11/23/15	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)
15-23177	No comments.	Edge Analytical
15-23314	No comments.	Edge Analytical
15-23430	No comments.	Edge Analytical
15-23522	Cooler temp. 6C	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
15-23177	x	x	x	x	x	x	
15-23314	x	x	x	x	x	x	
15-23430	x	x	x	x	x	x	x
15-23522	x	x	x	x	x	x	

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
CAL	Acceptable	MRL +/- 30% for TOC batch 151030
LFB	Acceptable	No comments.
LRB	Acceptable	No comments.
MB	Acceptable	No comments.
QCS	Acceptable	No comments.
LFM	Acceptable	No comments.
DUP	Acceptable	No comments.

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	63.8	63.8	0	5.6	5.6	0
Sulfate	mg/L	64.7	64.3	0.62	271	271	0
Total nitrate/nitrite	mg/L	2.33	2.44	4.61	6.6	6.61	0.15
Alkalinity	mg/L	538	530	1.50	360	359	0.28

Duplicate Evaluation							
Analyte	Units	N2D	N2D-Dup	RPD (%)	C1S	C1S-Dup	RPD (%)
Bicarbonate	mg/L	538	530	1.50	360	359	0.28
TDS	mg/L	706	700	0.85	806	798	1.00
COD	mg/L	12	0	200	21	10	70.97
TOC	mg/L	1.06	1.69	45.82	6.66	6.63	0.45
Calcium	mg/L	118.1	119.6	1.26	148.9	147.3	1.08
Magnesium	mg/L	75.6	76.4	1.05	62.5	61.9	0.96
Potassium	mg/L	7.8	8	2.53	5.5	5.4	1.83
Sodium	mg/L	41.5	42.1	1.44	30	29.7	1.01
Arsenic	mg/L	0.003	0.003	0	ND	ND	NA
Barium	mg/L	0.028	0.028	0	0.041	0.041	0
Chromium	mg/L	ND	ND	NA	0.009	0.009	0
Copper	mg/L	0.0016	0.001	46.15	0.002	0.004	66.67
Manganese	mg/L	0.018	0.018	0	0.004	0.003	28.57
Nickel	mg/L	0.005	0.005	0	0.008	0.008	0
Selenium	mg/L	0.001	0.001	0	ND	ND	NA
Vanadium	mg/L	0.003	0.003	0	0.002	0.002	0
Zinc	mg/L	ND	ND	NA	0.0025	0.0045	57.14
Trichlorofluoromethane	ug/L	0.8	0.9	11.76	6.2	5.7	8.40
Vinyl Chloride	ug/L	0.045	0.047	4.35	ND	ND	NA
CIS- 1,2 - DCE	ug/L	ND	ND	NA	0.6	0.6	0
1,1,1- TCA	ug/L	ND	ND	NA	0.8	0.7	13.33

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
HR	High QCS recovery.	15-23177, 15-23314, 15-23430, 15-23522
IM	Matrix induced bias assumed	15-23177, 15-23314, 15-23430, 15-23522
IS	The ratio of spike to sample was too low to meet performance criteria	15-23177, 15-23314, 15-23430, 15-23522
LE	End calibration below acceptable limits	15-23522
LR	Low recovery cannot be accounted for.	15-23177
M1	Matric spike recovery was high: associated blank spike recovery was acceptable.	15-23177, 15-23314, 15-23430, 15-23522

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 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.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 13, 2015

Page 1 of 1

Dan Venchiarutti
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-23177 - Coupeville Landfill

Dear Dan Venchiarutti,

Your project: Coupeville Landfill, was received on Tuesday October 27, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA Corporate Laboratory (a)
1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400
Bellingham, WA Microbiology (b)
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR Microbiology/Chemistry (c)
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802
Corvallis, OR Microbiology/Chemistry (d)
540 SW Third Street - Corvallis, OR 97333 - 541.753.4946
Bend, OR Microbiology (e)
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Data Report

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Report Date: 11/13/15

Date Received: 10/27/15

Approved by: bj,mvp

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: 1015-01 - Coupeville Landfill Sample Date: 10/26/15 10:55 am
Lab Number: 51468 Sample Comment: Collected By: Sam Graber

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	64.4	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
16984-48-8	FLUORIDE	0.12	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
14808-79-8	SULFATE	33.2	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-14506	ALKALINITY	409	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
NA	BICARBONATE	409	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
7664-41-7	AMMONIA-N	0.14	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	538	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.96	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	61.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.15	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	74.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	9.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	45.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.0072	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.065	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.158	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Data Report

Sample Description: 1015-02 - Coupeville Landfill									Sample Date: 10/26/15 12:25 pm			
Lab Number: 51469			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	105	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
14808-79-8	SULFATE	55.9	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-14506	ALKALINITY	669	25.0		mg/L	5.0	310.2	a	10/28/15	ANP	310.2_151028	
NA	BICARBONATE	669	25.0		mg/L	5.0	310.2	a	10/28/15	ANP	310.2_151028	
7664-41-7	AMMONIA-N	0.02	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	826	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	2.18	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	133.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	99.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	10.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	48.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.085	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.265	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.010	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.002	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-03 - Coupeville Landfill									Sample Date: 10/26/15 1:24 pm			
Lab Number: 51470			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	38.9	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
16984-48-8	FLUORIDE	0.14	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
14808-79-8	SULFATE	34.1	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-14506	ALKALINITY	317	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
NA	BICARBONATE	317	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	416	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.91	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	71.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	43.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	27.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.027	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-04 - Coupeville Landfill									Sample Date: 10/26/15 3:55 pm			
Lab Number: 51471			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	33.5	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
14808-79-8	SULFATE	23.5	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-14506	ALKALINITY	271	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
NA	BICARBONATE	271	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
7664-41-7	AMMONIA-N	0.01	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	364	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	TDS_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.70	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	75.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.16	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	27.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	21.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.008	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.057	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-05 - Coupeville Landfill									Sample Date: 10/26/15 4:43 pm			
Lab Number: 51472			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	34.4	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
14808-79-8	SULFATE	44.2	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-10128	TOTAL NITRATE/NITRITE	6.06	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-14506	ALKALINITY	486	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
NA	BICARBONATE	486	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	638	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.83	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	144.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.05	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	50.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	28.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.034	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.011	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-06 - Coupeville Landfill									Sample Date: 10/26/15 6:17 pm			
Lab Number: 51473			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	67.2	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
14808-79-8	SULFATE	30.2	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151027A	
E-14506	ALKALINITY	367	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
NA	BICARBONATE	367	5.00		mg/L	1.0	310.2	a	10/28/15	ANP	310.2_151028	
7664-41-7	AMMONIA-N	0.06	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	510	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	8	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.88	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	80.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.54	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	55.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	36.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.007	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.042	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.155	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51473
Field ID: 1015-06
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51473
Field ID: 1015-06
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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 D.F. - Dilution Factor.

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51472
Field ID: 1015-05
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 11/3/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151103
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	1.1		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.

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D.F. - Dilution Factor.



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51472
Field ID: 1015-05
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51471
Field ID: 1015-04
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 11/3/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151103
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51471
Field ID: 1015-04
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51470
Field ID: 1015-03
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 11/3/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151103
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51470
Field ID: 1015-03
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51469
Field ID: 1015-02
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 11/3/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151103
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51469
Field ID: 1015-02
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.023		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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 D.F. - Dilution Factor.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51468
Field ID: 1015-01
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 11/3/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/3/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151103
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23177**
Project: Coupeville Landfill

Lab Number: 51468
Field ID: 1015-01
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/26/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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 D.F. - Dilution Factor.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_151030	0 AMMONIA-N	2.61	2.50	mg/L	350.1	104	90-110	CAL	
6010B_151106A	2 CALCIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 IRON	1.05	1	mg/L	6010B	105	90-110	CAL	
	2 MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 POTASSIUM	9.1	10	mg/L	6010B	91	90-110	CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110	CAL	
6020_151109	0 ANTIMONY	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 ARSENIC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 BERYLLIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 CADMIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CHROMIUM	0.00092	0.001	mg/L	6020A	92	80-120	CAL	
	0 COBALT	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 LEAD	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	0 MANGANESE	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 NICKEL	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 THALLIUM	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 VANADIUM	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 ZINC	0.001	0.001	mg/L	6020A	100	80-120	CAL	
I151027A	0 CHLORIDE	1	1	mg/L	300.0	100	90-110	CAL	
	0 FLUORIDE	0.91	1	mg/L	300.0	91	90-110	CAL	
	0 SULFATE	2	2	mg/L	300.0	100	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.07	2	mg/L	300.0	104	90-110	CAL	
TOC_151030	0 TOTAL ORGANIC CARBON	2.45	2.50	mg/L	SM5310 B	98	90-110	CAL	
	1 TOTAL ORGANIC CARBON	103.1	100.0	mg/L	SM5310 B	103	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
TOC_151030	2 TOTAL ORGANIC CARBON	4.95	5.00	mg/L	SM5310 B	99	90-110	CAL	
	3 TOTAL ORGANIC CARBON	0.46	0.50	mg/L	SM5310 B	92	90-110	CAL	
	4 TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	MRL +/-30%

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B_151106A	0 CALCIUM	28	26	mg/L	6010B	108	85-115	LFB	
	0 IRON	1.08	1	mg/L	6010B	108	85-115	LFB	
	0 MAGNESIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
	0 POTASSIUM	33	35	mg/L	6010B	94	85-115	LFB	
	0 SODIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
6020_151109	0 ANTIMONY	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 ARSENIC	0.027	0.025	mg/L	6020A	108	80-120	LFB	
	0 BARIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 BERYLLIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 CADMIUM	0.024	0.025	mg/L	6020A	96	80-120	LFB	
	0 CHROMIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 COBALT	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 COPPER	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 LEAD	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 MANGANESE	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 NICKEL	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 SELENIUM	0.022	0.025	mg/L	6020A	88	80-120	LFB	
	0 SILVER	0.012	0.0125	mg/L	6020A	96	80-120	LFB	
	0 THALLIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 VANADIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
0 ZINC	0.023	0.025	mg/L	6020A	92	80-120	LFB		
8260W_151103	0 1,1 - DICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	3.4	4	ug/L	8260B	85	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	3.2	4	ug/L	8260B	80	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 1,2 - DICHLOROETHANE	3.2	4	ug/L	8260B	80	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	3.3	4	ug/L	8260B	83	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_151103	0 1,2,3 - TRICHLOROPROPANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 1,4 - DICHLOROBENZENE (para)	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 2-BUTANONE (MEK)	7.2	10	ug/L	8260B	72	80-120	LR	LFB	
	0 2-HEXANONE	5.9	10	ug/L	8260B	59	80-120	LR	LFB	
	0 4-METHYL-2-PENTANONE	7.6	10	ug/L	8260B	76	80-120	LR	LFB	
	0 ACETONE	11.5	10	ug/L	8260B	115	80-120		LFB	
	0 BENZENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 BROMOCHLOROMETHANE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 BROMODICHLOROMETHANE	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 BROMOFORM	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 BROMOMETHANE	3.8	4	ug/L	8260B	95	80-120		LFB	
	0 CARBON DISULFIDE	11.6	10	ug/L	8260B	116	80-120		LFB	
	0 CARBON TETRACHLORIDE	3.6	4	ug/L	8260B	90	80-120		LFB	
	0 CHLOROENZENE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 CHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 CHLOROFORM	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 CHLOROMETHANE	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 CIS - 1,2 - DICHLOROETHENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 DIBROMOCHLOROMETHANE	3.3	4	ug/L	8260B	83	80-120		LFB	
	0 DIBROMOMETHANE	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 ETHYLBENZENE	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 M,P- XYLENE	9.5	8	ug/L	8260B	119	80-120		LFB	
	0 METHYL IODIDE	9.2	10	ug/L	8260B	92	80-120		LFB	
	0 METHYLENE CHLORIDE	3.2	4	ug/L	8260B	80	80-120		LFB	
	0 O - XYLENE	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 STYRENE	4.4	4	ug/L	8260B	110	80-120		LFB	
	0 TETRACHLOROETHYLENE	3.5	4	ug/L	8260B	88	80-120		LFB	
	0 TOLUENE	3.4	4	ug/L	8260B	85	80-120		LFB	
0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120		LFB		
0 TRANS - 1,3 - DICHLOROPROPENE	3.5	4	ug/L	8260B	88	80-120		LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_151103	0 TRANS - 1,4 - DICHLORO-2-BUTENE	8.7	10	ug/L	8260B	87	80-120	LFB		
	0 TRICHLOROETHENE	3.7	4	ug/L	8260B	93	80-120	LFB		
	0 TRICHLOROFUOROMETHANE	3.5	4	ug/L	8260B	88	80-120	LFB		
	0 VINYL ACETATE	8.3	10	ug/L	8260B	83	80-120	LFB		
	0 VINYL CHLORIDE	3.2	4	ug/L	8260B	80	80-120	LFB		
8260W_151106	0 1,1 - DICHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB		
	0 1,1 - DICHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120	LFB		
	0 1,1,1 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 1,1,1,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260B	113	80-120	LFB		
	0 1,1,2 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 1,1,2,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB		
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB		
	0 1,2 - DICHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB		
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 1,2,3 - TRICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 1,2-DIBROMO-3-CHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB		
	0 1,4 - DICHLOROBENZENE (para)	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 2-BUTANONE (MEK)	12	10	ug/L	8260B	120	80-120	LFB		
	0 2-HEXANONE	11.9	10	ug/L	8260B	119	80-120	LFB		
	0 4-METHYL-2-PENTANONE	11.8	10	ug/L	8260B	118	80-120	LFB		
	0 ACETONE	12.9	10	ug/L	8260B	129	80-120	HR	LFB	
	0 BENZENE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 BROMOCHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB		
	0 BROMODICHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB		
	0 BROMOFORM	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 BROMOMETHANE	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 CARBON DISULFIDE	11.4	10	ug/L	8260B	114	80-120	LFB		
	0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB		
	0 CHLOROBENZENE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 CHLOROETHANE	3.5	4	ug/L	8260B	88	80-120	LFB		
0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120	LFB			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 CHLOROMETHANE	4.8	4	ug/L	8260B	120	80-120	LFB	
	0 CIS - 1,2 - DICHLOROETHENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 DIBROMOMETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120	LFB	
	0 METHYL IODIDE	11.9	10	ug/L	8260B	119	80-120	LFB	
	0 METHYLENE CHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 O - XYLENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 STYRENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TETRACHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TOLUENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.4	10	ug/L	8260B	114	80-120	LFB	
	0 TRICHLOROETHENE	3.9	4	ug/L	8260B	98	80-120	LFB	
0 TRICHLOROFLUOROMETHANE	4.6	4	ug/L	8260B	115	80-120	LFB		
0 VINYL ACETATE	11.3	10	ug/L	8260B	113	80-120	LFB		
0 VINYL CHLORIDE	4.6	4	ug/L	8260B	115	80-120	LFB		
COD_151103	0 CHEMICAL OXYGEN DEMAND	50	50	mg/L	SM5220 D	100	90-110	LFB	
SIM_151030	0 1,2 - DIBROMOETHANE (EDB SIM)	0.087	0.1	ug/L	8260SIM	87	70-130	LFB	SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.086	0.1	ug/L	8260SIM	86	70-130	LFB	SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.116	0.1	ug/L	8260SIM	116	70-130	LFB	SIMS ANALYSIS
TOC_151030	0 TOTAL ORGANIC CARBON	0.94	1.00	mg/L	SM5310 B	94	90-110	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151028	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_151030	0 AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0	LRB	
	0 IRON	ND		mg/L	6010B		0-0	LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	0 SODIUM	ND		mg/L	6010B		0-0	LRB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
0 VANADIUM	ND		mg/L	6020A		0-0	LRB		
0 ZINC	ND		mg/L	6020A		0-0	LRB		
151027A	0 CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_151030	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_151028	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_151030	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	ND		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8260W_151103	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23177
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	TB 15-23177
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23177
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23177
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23177

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151103	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 1,2 - DICHLOROENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23177

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151103	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23177
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23177
8260W_151106	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314	
0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314	
0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23314	
0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314	
COD_151103	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D	0-3		MB	
SIM_151030	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Method Blank

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
SIM_151030	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0		MB	TB 15-23314
tds_151030	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3		MB	
TOC_151030	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151028	0 ALKALINITY	102	100	mg CaCO3/l	310.2	102	85-115	QCS	
350.1_151030	0 AMMONIA-N	2.93	2.85	mg/L	350.1	103	85-115	QCS	
6010B_151106A	0 CALCIUM	2.01	2	mg/L	6010B	101	90-110	QCS	
	0 IRON	2.09	2	mg/L	6010B	105	90-110	QCS	
	0 MAGNESIUM	2	2	mg/L	6010B	100	90-110	QCS	
	0 SODIUM	2.09	2	mg/L	6010B	105	90-110	QCS	
	1 POTASSIUM	19	20	mg/L	6010B	95	90-110	QCS	
6020_151109	0 ANTIMONY	0.044	0.040	mg/L	6020A	110	90-110	QCS	
	0 ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 BARIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CADMIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CHROMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS		
COD_151103	0 CHEMICAL OXYGEN DEMAND	156	162	mg/L	SM5220 D	96	90-110	QCS	
I151027A	0 CHLORIDE	5.7	6	mg/L	300.0	95	90-110	QCS	
	0 FLUORIDE	3.62	4	mg/L	300.0	91	90-110	QCS	
	0 SULFATE	30	30	mg/L	300.0	100	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-23177**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I151027A	0 TOTAL NITRATE/NITRITE	11.59	12	mg/L	300.0	97	90-110	QCS	
tds_151030	0 TOTAL DISSOLVED SOLIDS (TDS)	480	500	mg/L	SM2540 C	96	80-120	QCS	
TOC_151030	0 TOTAL ORGANIC CARBON	4.98	5.00	mg/L	SM5310 B	100	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE DEPENDENT
 QUALITY CONTROL REPORT**
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC	
				Result					Qualifier	Type
Duplicate										
310.2_151028										
	50415	ALKALINITY	286	286		mg CaCO3/l	0.0	0-20		DUP
	51469	ALKALINITY	605	604		mg/L	0.2	0-20		DUP
350.1_151030										
	50781	AMMONIA-N	0.02	0.01		mg/L	66.7	0-20	IM	DUP
	51472	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	51762	AMMONIA-N	0.01	0.01		mg/L	0.0	0-20		DUP
6010B_151106A										
	51468	IRON	0.15	0.16		mg/L	6.5	0-20		DUP
	51468	CALCIUM	61.3	60.0		mg/L	2.1	0-20		DUP
	51468	MAGNESIUM	74.5	73.7		mg/L	1.1	0-20		DUP
	51468	POTASSIUM	9.5	9.4		mg/L	1.1	0-20		DUP
	51468	SODIUM	45.9	45.4		mg/L	1.1	0-20		DUP
	51762	IRON	0.31	0.31		mg/L	0.0	0-20		DUP
	51762	CALCIUM	138.7	135.4		mg/L	2.4	0-20		DUP
	51762	MAGNESIUM	107.7	105.1		mg/L	2.4	0-20		DUP
	51762	POTASSIUM	9.7	9.6		mg/L	1.0	0-20		DUP
	51762	SODIUM	49.8	48.7		mg/L	2.2	0-20		DUP
	52028	IRON	0.19	0.19		mg/L	0.0	0-20		DUP
	52028	CALCIUM	40.0	40.3		mg/L	0.7	0-20		DUP
	52028	MAGNESIUM	55.1	55.9		mg/L	1.4	0-20		DUP
	52028	POTASSIUM	9.0	9.2		mg/L	2.2	0-20		DUP
	52028	SODIUM	28.7	29.3		mg/L	2.1	0-20		DUP
	52192	IRON	0.17	0.17		mg/L	0.0	0-20		DUP
	52192	CALCIUM	60.5	60.1		mg/L	0.7	0-20		DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	52192	MAGNESIUM	40.6	40.3	mg/L	0.7	0-20		DUP	
	52192	POTASSIUM	6.1	6.1	mg/L	0.0	0-20		DUP	
	52192	SODIUM	25.8	25.6	mg/L	0.8	0-20		DUP	
6020_151109										
	51468	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51468	ARSENIC	0.0072	0.0072	mg/L	0.0	0-20		DUP	
	51468	BARIUM	0.065	0.065	mg/L	0.0	0-20		DUP	
	51468	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51468	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	51468	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51468	MANGANESE	0.158	0.159	mg/L	0.6	0-20		DUP	
	51468	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SELENIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	51468	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	51762	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51762	ARSENIC	0.005	0.005	mg/L	0.0	0-20		DUP	
	51762	BARIUM	0.108	0.104	mg/L	3.8	0-20		DUP	
	51762	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51762	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	51762	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51762	MANGANESE	0.224	0.233	mg/L	3.9	0-20		DUP	
	51762	NICKEL	0.011	0.011	mg/L	0.0	0-20		DUP	
	51762	SELENIUM	0.0014	0.0017	mg/L	19.4	0-20		DUP	
	51762	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	51762	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	51762	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	51762	ZINC	0.0027	0.002		mg/L	29.8	0-20	IM		DUP
	52028	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	52028	ARSENIC	0.004	0.004		mg/L	0.0	0-20			DUP
	52028	BARIUM	0.031	0.030		mg/L	3.3	0-20			DUP
	52028	BERYLLIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	CADMIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	CHROMIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	COBALT	ND	ND		mg/L	NA	0-20			DUP
	52028	COPPER	0.0078	0.007		mg/L	10.8	0-20			DUP
	52028	LEAD	0.0009	0.0009		mg/L	0.0	0-20			DUP
	52028	MANGANESE	0.006	0.0055		mg/L	8.7	0-20			DUP
	52028	NICKEL	0.002	0.002		mg/L	0.0	0-20			DUP
	52028	SELENIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	SILVER	ND	ND		mg/L	NA	0-20			DUP
	52028	THALLIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	ZINC	0.579	0.563		mg/L	2.8	0-20			DUP
	52192	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	52192	ARSENIC	0.006	0.006		mg/L	0.0	0-20			DUP
	52192	BARIUM	0.023	0.024		mg/L	4.3	0-20			DUP
	52192	BERYLLIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	CADMIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	CHROMIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	COBALT	ND	ND		mg/L	NA	0-20			DUP
	52192	COPPER	ND	ND		mg/L	NA	0-20			DUP
	52192	LEAD	ND	ND		mg/L	NA	0-20			DUP
	52192	MANGANESE	0.146	0.134		mg/L	8.6	0-20			DUP
	52192	NICKEL	ND	ND		mg/L	NA	0-20			DUP
	52192	SELENIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	SILVER	ND	ND		mg/L	NA	0-20			DUP
	52192	THALLIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	ZINC	0.067	0.065		mg/L	3.0	0-20			DUP

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
COD_151103											
	51485	CHEMICAL OXYGEN DEMAND	149	153		mg/L	2.6	0-20		DUP	
	52023	CHEMICAL OXYGEN DEMAND	ND	ND		mg/L	NA	0-20		DUP	
	52102	CHEMICAL OXYGEN DEMAND	75	78		mg/L	3.9	0-20		DUP	
I151027A											
	50927	SULFATE	6.7	6.7		mg/L	0.0	0-20		DUP	
	51465	FLUORIDE	0.96	0.96		mg/L	0.0	0-20		DUP	
tds_151030											
	51471	TOTAL DISSOLVED SOLIDS (TDS)	364	364		mg/L	0.0	0-10		DUP	
	51766	TOTAL DISSOLVED SOLIDS (TDS)	506	506		mg/L	0.0	0-10		DUP	
	52030	TOTAL DISSOLVED SOLIDS (TDS)	932	934		mg/L	0.2	0-10		DUP	
TOC_151030											
	51287	TOTAL ORGANIC CARBON	0.39	0.37		mg/L	5.3	0-20		DUP	
	51334	TOTAL ORGANIC CARBON	ND	ND		mg/L	NA	0-20		DUP	
	51613	TOTAL ORGANIC CARBON	0.18	0.19		mg/L	5.4	0-20		DUP	
	51765	TOTAL ORGANIC CARBON	1.46	1.38		mg/L	5.6	0-20		DUP	
	52030	TOTAL ORGANIC CARBON	1.07	1.01		mg/L	5.8	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_151028															
	50415	ALKALINITY	286	530	530	250	mg CaCO3/98	98		70-130	0.0	0-20			LFM
	51469	ALKALINITY	669	785	746	250	mg/L	46	31	70-130	40.4	0-20	IM		LFM
350.1_151030															
	50781	AMMONIA-N	0.02	1.00	1.06	1.00	mg/L	98	104	70-130	5.9	0-20			LFM
	51472	AMMONIA-N	ND	1.01	1.03	1.00	mg/L	101	103	70-130	2.0	0-20			LFM
	51762	AMMONIA-N	0.01	1.03	1.07	1.00	mg/L	102	106	70-130	3.8	0-20			LFM
6010B_151106A															
	51468	IRON	0.15	1.24	1.22	1.00	mg/L	109	107	75-125	1.9	0-20			LFM
	51468	CALCIUM	61.3	86.0	86.7	26.0	mg/L	95	98	75-125	2.8	0-20			LFM
	51468	MAGNESIUM	74.5	97.9	98.3	26.0	mg/L	90	92	75-125	1.7	0-20			LFM
	51468	POTASSIUM	9.5	41.8	41.4	35.0	mg/L	92	91	75-125	1.2	0-20			LFM
	51762	IRON	0.31	1.38		1.00	mg/L	107		75-125	NA	0-20			LFM
	51762	CALCIUM	138.7	160.0		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	MAGNESIUM	107.7	129.1		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	POTASSIUM	9.7	41.6		35.0	mg/L	91		75-125	NA	0-20			LFM
	52028	IRON	0.19	1.25		1.00	mg/L	106		75-125	NA	0-20			LFM
	52028	CALCIUM	40.0	69.7		26.0	mg/L	114		75-125	NA	0-20			LFM
	52028	MAGNESIUM	55.1	82.9		26.0	mg/L	107		75-125	NA	0-20			LFM
	52028	POTASSIUM	9.0	41.8		35.0	mg/L	94		75-125	NA	0-20			LFM
	52192	IRON	0.17	1.25		1.00	mg/L	108		75-125	NA	0-20			LFM
	52192	CALCIUM	60.5	87.4		26.0	mg/L	103		75-125	NA	0-20			LFM
	52192	MAGNESIUM	40.6	66.3		26.0	mg/L	99		75-125	NA	0-20			LFM
	52192	POTASSIUM	6.1	37.9		35.0	mg/L	91		75-125	NA	0-20			LFM
6020_151109															
	51468	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20			LFM
	51468	ARSENIC	0.0072	0.032		0.025	mg/L	99		75-125	NA	0-20			LFM
	51468	BARIUM	0.065	0.090		0.025	mg/L	100		75-125	NA	0-20			LFM
	51468	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	51468	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	51468	CHROMIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20			LFM
	51468	COBALT	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	51468	COPPER	ND	0.027		0.025	mg/L	108		75-125	NA	0-20			LFM

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	51468	LEAD	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	MANGANESE	0.158	0.184		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	NICKEL	0.001	0.026		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	SELENIUM	0.001	0.023		0.025	mg/L	88			75-125	NA	0-20		LFM	
	51468	SILVER	ND	0.012		0.0125	mg/L	96			75-125	NA	0-20		LFM	
	51468	THALLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	VANADIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51468	ZINC	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	ANTIMONY	ND	0.028		0.025	mg/L	112			75-125	NA	0-20		LFM	
	51762	ARSENIC	0.005	0.030		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	BARIUM	0.108	0.130		0.025	mg/L	88			75-125	NA	0-20		LFM	
	51762	BERYLLIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	CHROMIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	COBALT	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	COPPER	0.001	0.027		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	LEAD	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	51762	MANGANESE	0.224	0.250		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	NICKEL	0.011	0.037		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	SELENIUM	0.001	0.025		0.025	mg/L	96			75-125	NA	0-20		LFM	
	51762	SILVER	ND	0.012		0.0125	mg/L	96			75-125	NA	0-20		LFM	
	51762	THALLIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	VANADIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	ZINC	0.0027	0.026		0.025	mg/L	93			75-125	NA	0-20		LFM	
	52028	ANTIMONY	ND	0.028		0.025	mg/L	112			75-125	NA	0-20		LFM	
	52028	ARSENIC	0.004	0.029		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	BARIUM	0.031	0.056		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	BERYLLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	52028	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	CHROMIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	52028	COBALT	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	52028	COPPER	0.008	0.032		0.025	mg/L	96			75-125	NA	0-20		LFM	
	52028	LEAD	0.0009	0.026		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	MANGANESE	0.006	0.032		0.025	mg/L	104			75-125	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	52028	NICKEL	0.002	0.027		0.025	mg/L	100		75-125	NA	0-20			LFM
	52028	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20			LFM
	52028	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20			LFM
	52028	THALLIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	52028	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52028	ZINC	0.579	0.590		0.025	mg/L	44		75-125	NA	0-20	IS		LFM
	52192	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20			LFM
	52192	ARSENIC	0.006	0.030		0.025	mg/L	96		75-125	NA	0-20			LFM
	52192	BARIUM	0.023	0.050		0.025	mg/L	108		75-125	NA	0-20			LFM
	52192	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52192	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	52192	CHROMIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52192	COBALT	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	52192	COPPER	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52192	LEAD	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	52192	MANGANESE	0.146	0.171		0.025	mg/L	100		75-125	NA	0-20			LFM
	52192	NICKEL	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52192	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20			LFM
	52192	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20			LFM
	52192	THALLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52192	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	52192	ZINC	0.067	0.089		0.025	mg/L	88		75-125	NA	0-20			LFM
8260W_151106															
	52024	1,1 - DICHLOROETHANE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20			LFM
	52024	1,1 - DICHLOROETHYLENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM
	52024	1,1,1 - TRICHLOROETHANE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20			LFM
	52024	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20			LFM
	52024	1,1,2 - TRICHLOROETHANE	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20			LFM
	52024	1,1,2,2 - TETRACHLOROETHANE	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20			LFM
	52024	1,2 - DICHLOROBENZENE (ortho)	ND	3.9	3.6	4	ug/L	98	90	70-130	8.0	0-20			LFM
	52024	1,2 - DICHLOROETHANE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20			LFM
	52024	1,2 - DICHLOROPROPANE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM
	52024	1,2,3 - TRICHLOROPROPANE	ND	4.5	4.2	4	ug/L	113	105	70-130	6.9	0-20			LFM
	52024	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	5.2	4	ug/L	125	130	70-130	3.9	0-20			LFM

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
52024	1,4 - DICHLOROBENZENE (para)	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM		
52024	2-BUTANONE (MEK)	ND				ug/L			70-130	NA	0-20		LFM		
52024	2-HEXANONE	ND				ug/L			70-130	NA	0-20		LFM		
52024	4-METHYL-2-PENTANONE	ND				ug/L			70-130	NA	0-20		LFM		
52024	ACETONE	ND				ug/L			70-130	NA	0-20		LFM		
52024	BENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM		
52024	BROMOCHLOROMETHANE	ND	3.5	3.6	4	ug/L	88	90	70-130	2.8	0-20		LFM		
52024	BROMODICHLOROMETHANE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0	0-20		LFM		
52024	BROMOFORM	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20		LFM		
52024	BROMOMETHANE	ND	3.9	4.9	4	ug/L	98	123	70-130	22.7	0-20		LFM		
52024	CARBON DISULFIDE	ND				ug/L			70-130	NA	0-20		LFM		
52024	CARBON TETRACHLORIDE	ND	4.0	5.1	4	ug/L	100	128	70-130	24.2	0-20		LFM		
52024	CHLOROBENZENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM		
52024	CHLOROETHANE	ND	4.8	3.0	4	ug/L	120	75	70-130	46.2	0-20		LFM		
52024	CHLOROFORM	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20		LFM		
52024	CHLOROMETHANE	ND	4.9	4.2	4	ug/L	123	105	70-130	15.4	0-20		LFM		
52024	CIS - 1,2 - DICHLOROETHENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM		
52024	CIS - 1,3 - DICHLOROPROPENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM		
52024	DIBROMOCHLOROMETHANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6	0-20		LFM		
52024	DIBROMOMETHANE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20		LFM		
52024	ETHYLBENZENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM		
52024	M,P- XYLENE	ND	8.0	7.4	8	ug/L	100	93	70-130	7.8	0-20		LFM		
52024	METHYL IODIDE	ND				ug/L			70-130	NA	0-20		LFM		
52024	METHYLENE CHLORIDE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20		LFM		
52024	O - XYLENE	ND	4.2	3.8	4	ug/L	105	95	70-130	10.0	0-20		LFM		
52024	STYRENE	ND	4.0	3.7	4	ug/L	100	93	70-130	7.8	0-20		LFM		
52024	TETRACHLOROETHYLENE	ND	3.5	3.5	4	ug/L	88	88	70-130	0.0	0-20		LFM		
52024	TOLUENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1	0-20		LFM		
52024	TRANS - 1,2 - DICHLOROETHENE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM		
52024	TRANS - 1,3 - DICHLOROPROPENE	ND	3.3	3.7	4	ug/L	83	93	70-130	11.4	0-20		LFM		
52024	TRANS - 1,4 - DICHLORO-2-BUTENE	ND				ug/L			70-130	NA	0-20		LFM		
52024	TRICHLOROETHENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM		
52024	TRICHLOROFLUOROMETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM		
52024	VINYL ACETATE	ND				ug/L			70-130	NA	0-20		LFM		

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments	
				Spike Result	Spike Result			MS	MSD				Qualifier	Type		
	52024	VINYL CHLORIDE	ND	5.5	4.8	4	ug/L	138	120	70-130	13.6	0-20	M1	LFM		
COD_151103																
	51485	CHEMICAL OXYGEN DEMAND	149	203	199	50	mg/L	108	100	70-130	7.7	0-20		LFM		
	52023	CHEMICAL OXYGEN DEMAND	ND	59	56	50	mg/L	118	112	70-130	5.2	0-20		LFM		
	52102	CHEMICAL OXYGEN DEMAND	75	128	126	50	mg/L	106	102	70-130	3.8	0-20		LFM		
I151027A																
	50927	SULFATE	6.7	45.9		40	mg/L	98	NA	90-110	NA	0-20		LFM		
	51465	FLUORIDE	0.96	1.86		1	mg/L	90	NA	90-110	NA	0-20		LFM		
SIM_151030																
	52024	1,2 - DIBROMOETHANE (EDB SIM)		0.093	0.099	0.1	ug/L	93	99	70-130	6.3	0-20		LFM		
	52024	ACRYLONITRILE (SIM)		0.072	0.084	0.1	ug/L	72	84	70-130	15.4	0-20		LFM		
	52024	VINYL CHLORIDE (SIM)		0.123	0.127	0.1	ug/L	123	127	70-130	3.2	0-20		LFM		
TOC_151030																
	51287	TOTAL ORGANIC CARBON	0.39	4.24		4.00	mg/L	96		70-130	NA	0-20		LFM		
	51334	TOTAL ORGANIC CARBON	ND	3.79		4.00	mg/L	95		70-130	NA	0-20		LFM		
	51613	TOTAL ORGANIC CARBON	0.18	4.04		4.00	mg/L	97		70-130	NA	0-20		LFM		
	51765	TOTAL ORGANIC CARBON	1.46	5.17		4.00	mg/L	93		70-130	NA	0-20		LFM		
	52030	TOTAL ORGANIC CARBON	1.07	4.69		4.00	mg/L	91		70-130	NA	0-20		LFM		

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Qualifier Definitions

Reference Number: 15-23177

Report Date: 11/13/15

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Matrix bias indicated.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

PAGE 1

OF 1

FOR LAB USE ONLY



REPORT TO: SCS ENGINEERS
 ADDRESS: 2405 140TH AVE. NE STE 107
 CITY: BELLEVUE STATE: WA ZIP: 98005
 ATTN: ELENA RAMIREZ Dan Vandierckx
 PHONE: 425-746-4600 FAX: 425-746-6747
 EMAIL: eramirez@scsengineers.com
 PROJECT NAME: COUPEVILLE LANDFILL

BILL TO: ISLAND COUNTY SOLID WASTE
 ADDRESS: PO Box 5000
 CITY: Coupeville STATE: WA ZIP: 98239
 PHONE: 360-678-7338 FAX:
 P.O.#:
 VISA MC AE EXPIRES /
 CARD#

REF#
 CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) (PHONE CALL REQ. EMERGENCY (PHONE CALL REQUIRED))

ANALYSIS REQUESTED

Total Metals	<input checked="" type="checkbox"/>
NO2/NO3, NH3, COD	<input checked="" type="checkbox"/>
8260B	<input checked="" type="checkbox"/>
8260SIM	<input checked="" type="checkbox"/>
Chloride, Sulfate, TDS, Fluoride	<input checked="" type="checkbox"/>
Total Alka, Bicarb	<input checked="" type="checkbox"/>
TOC	<input checked="" type="checkbox"/>
8151	<input checked="" type="checkbox"/>

NUMBER OF CONTAINERS: 11
 SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT: Please call 1 trip blank

15-23177
 51468 - 51473

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/CONDITIONS ON RECEIPT
1	1015- D1	G	GW	10/26/15	10:55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	Please call
2	1015- D2	G	GW		12:25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1 trip blank
3	1015- O3	G	GW		13:24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	1015- O4	G	GW		15:55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	1015- O5	G	GW		16:43	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6	1015- D6	G	GW		18:17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7	1015- Trip blank	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
8	1015-	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9	1015-	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10	1015-	G	GW			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER * W-WATER
 S Grabber @ scsengineers.com DW- DRINKING WATER GW- GROUND WATER SW- SURFACE WATER WW- WASTE WATER S- SOIL OL- OIL
 PHONE: 425-457-3233 FAX:
 EMAIL: S Grabber @ scsengineers.com

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Sam Grabber	10/27/15	13:30	[Signature]	10-27-15	15:00

CUSTOMY SEALS INTACT YES NO N/A
 SAMPLE TEMP 1.8 °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 13, 2015

Page 1 of 1

Elena Ramirez
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-23314 - Coupeville Landfill

Dear Elena Ramirez,

Your project: Coupeville Landfill, was received on Wednesday October 28, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA *Corporate Laboratory (a)*
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400
 Bellingham, WA *Microbiology (b)*
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802
 Corvallis, OR *Microbiology/Chemistry (d)*
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946
 Bend, OR *Microbiology (e)*
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-23314**
 Project: Coupeville Landfill

Report Date: 11/13/15

Date Received: 10/28/15

Approved by: bj,mvp

Authorized by:

Lawrence J Henderson, PhD
 Director of Laboratories, Vice President

Sample Description: 1015-07 - Coupeville Landfill Sample Date: 10/27/15 9:29 am
 Lab Number: 51758 Sample Comment: Collected By: Sam Graber

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	63.8	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
14808-79-8	SULFATE	64.7	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	2.33	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
E-14506	ALKALINITY	538	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	538	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	706	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	12	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.06	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	118.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	75.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	7.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	41.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.028	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.0016	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.018	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Data Report

Sample Description: 1015-08 - Coupeville Landfill									Sample Date: 10/27/15 9:45 am			
Lab Number: 51759			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	63.8	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
14808-79-8	SULFATE	64.3	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	2.44	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
E-14506	ALKALINITY	530	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	530	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	700	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.69	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	119.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	76.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	8.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	42.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.028	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.018	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-09 - Coupeville Landfill									Sample Date: 10/27/15 10:30 am			
Lab Number: 51760			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	31.6	0.1	0.0211	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
16984-48-8	FLUORIDE	0.26	0.1	0.0054	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
14808-79-8	SULFATE	110	0.2	0.0174	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	6.11	0.1	0.0206	mg/L	1.0	300.0	a	10/28/15	MMH	I151028A	
E-14506	ALKALINITY	821	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	821	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	966	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.53	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	194.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	98.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	9.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	33.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.054	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.005	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.0027	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-10 - Coupeville Landfill									Sample Date: 10/27/15 12:58 pm			
Lab Number: 51761			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	3.3	0.1	0.0211	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
14808-79-8	SULFATE	13.1	0.2	0.0174	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	4.55	0.1	0.0206	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-14506	ALKALINITY	212	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	212	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	260	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.55	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	35.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	32.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	2.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	13.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/12/15	MVP	6020_151112	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.013	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.003	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-11 - Coupeville Landfill									Sample Date: 10/27/15 2:04 pm			
Lab Number: 51762			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	122	0.1	0.0211	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
14808-79-8	SULFATE	139	0.2	0.0174	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-14506	ALKALINITY	574	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	574	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.01	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	900	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	TDS_151030	
E-10117	CHEMICAL OXYGEN DEMAND	14	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	3.05	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	138.7	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.31	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	107.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	9.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	49.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.108	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.224	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.011	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.0027	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-12 - Coupeville Landfill									Sample Date: 10/27/15 3:17 pm			
Lab Number: 51763			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	5.6	0.1	0.0211	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
14808-79-8	SULFATE	271	0.2	0.0174	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	6.6	0.1	0.0206	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-14506	ALKALINITY	360	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	360	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	806	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	21	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	6.66	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	148.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	62.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	30.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	ND	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.041	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.009	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.004	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.0025	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-13 - Coupeville Landfill									Sample Date: 10/27/15 3:30 pm			
Lab Number: 51764			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	5.6	0.1	0.0211	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
14808-79-8	SULFATE	271	0.2	0.0174	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	6.61	0.1	0.0206	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-14506	ALKALINITY	359	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	359	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	798	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	6.63	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	147.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	61.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.4	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	29.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	ND	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.041	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.009	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.004	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.008	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.0045	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-14 - Coupeville Landfill									Sample Date: 10/27/15 4:37 pm			
Lab Number: 51765			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	55.1	0.1	0.0211	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
14808-79-8	SULFATE	103	0.2	0.0174	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	44.7	0.1	0.0206	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-14506	ALKALINITY	436	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	436	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	862	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.46	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	149.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	87.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	31.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.037	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.074	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.007	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.0026	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-15 - Coupeville Landfill									Sample Date: 10/27/15 5:51 pm			
Lab Number: 51766			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	55.5	0.1	0.0211	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
16984-48-8	FLUORIDE	0.11	0.1	0.0054	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
14808-79-8	SULFATE	29.6	0.2	0.0174	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/29/15	MMH	I151028A	
E-14506	ALKALINITY	384	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	384	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.01	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	506	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.66	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	82.7	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.14	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	53.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	35.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.034	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.215	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	ND	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.0037	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51766
Field ID: 1015-15
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51766
Field ID: 1015-15
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51765
Field ID: 1015-14
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.6		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	5.7		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51765
Field ID: 1015-14
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.026		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51764
Field ID: 1015-13
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.7		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	3	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	0.6		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	5.7		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51764
Field ID: 1015-13
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a		

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51763
Field ID: 1015-12
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.8		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	0.6		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	6.2		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51763
Field ID: 1015-12
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51762
Field ID: 1015-11
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51762
Field ID: 1015-11
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51761
Field ID: 1015-10
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.5		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51761
Field ID: 1015-10
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT	
	Volatile Organic Compounds										
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a		
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a		
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a		

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51760
Field ID: 1015-09
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	0.8		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.6		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.4		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51760
Field ID: 1015-09
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.023		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51759
Field ID: 1015-08
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROETHANE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROETHANE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.9		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51759
Field ID: 1015-08
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.047		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51758
Field ID: 1015-07
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	0.8		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23314**
Project: Coupeville Landfill

Lab Number: 51758
Field ID: 1015-07
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/27/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.045		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_151030	0 AMMONIA-N	2.61	2.50	mg/L	350.1	104	90-110	CAL	
6010B_151106A	2 CALCIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 IRON	1.05	1	mg/L	6010B	105	90-110	CAL	
	2 MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 POTASSIUM	9.1	10	mg/L	6010B	91	90-110	CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110	CAL	
6020_151109	0 ANTIMONY	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 ARSENIC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 BERYLLIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 CADMIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CHROMIUM	0.00092	0.001	mg/L	6020A	92	80-120	CAL	
	0 COBALT	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 LEAD	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	0 MANGANESE	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 NICKEL	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 THALLIUM	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 VANADIUM	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
0 ZINC	0.001	0.001	mg/L	6020A	100	80-120	CAL		
6020_151112	0 ANTIMONY	0.001	0.001	mg/L	6020A	100	80-120	CAL	
151028A	0 CHLORIDE	1	1	mg/L	300.0	100	90-110	CAL	
	0 FLUORIDE	0.92	1	mg/L	300.0	92	90-110	CAL	
	0 SULFATE	2	2	mg/L	300.0	100	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.13	2	mg/L	300.0	107	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
TOC_151030	0 TOTAL ORGANIC CARBON	2.45	2.50	mg/L	SM5310 B	98	90-110	CAL	
	1 TOTAL ORGANIC CARBON	103.1	100.0	mg/L	SM5310 B	103	90-110	CAL	
	2 TOTAL ORGANIC CARBON	4.95	5.00	mg/L	SM5310 B	99	90-110	CAL	
	3 TOTAL ORGANIC CARBON	0.46	0.50	mg/L	SM5310 B	92	90-110	CAL	
	4 TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	MRL +/-30%

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B_151106A	0 CALCIUM	28	26	mg/L	6010B	108	85-115	LFB	
	0 IRON	1.08	1	mg/L	6010B	108	85-115	LFB	
	0 MAGNESIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
	0 POTASSIUM	33	35	mg/L	6010B	94	85-115	LFB	
	0 SODIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
6020_151109	0 ANTIMONY	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 ARSENIC	0.027	0.025	mg/L	6020A	108	80-120	LFB	
	0 BARIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 BERYLLIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 CADMIUM	0.024	0.025	mg/L	6020A	96	80-120	LFB	
	0 CHROMIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 COBALT	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 COPPER	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 LEAD	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 MANGANESE	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 NICKEL	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 SELENIUM	0.022	0.025	mg/L	6020A	88	80-120	LFB	
	0 SILVER	0.012	0.0125	mg/L	6020A	96	80-120	LFB	
	0 THALLIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 VANADIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
0 ZINC	0.023	0.025	mg/L	6020A	92	80-120	LFB		
8260W_151106	0 1,1 - DICHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,2 - DICHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
8260W_151106	0 1,2,3 - TRICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 1,4 - DICHLOROENZENE (para)	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 2-BUTANONE (MEK)	12	10	ug/L	8260B	120	80-120	LFB	
	0 2-HEXANONE	11.9	10	ug/L	8260B	119	80-120	LFB	
	0 4-METHYL-2-PENTANONE	11.8	10	ug/L	8260B	118	80-120	LFB	
	0 ACETONE	12.9	10	ug/L	8260B	129	80-120	HR LFB	
	0 BENZENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 BROMOCHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 BROMODICHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 BROMOFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 BROMOMETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 CARBON DISULFIDE	11.4	10	ug/L	8260B	114	80-120	LFB	
	0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 CHLOROENZENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROMETHANE	4.8	4	ug/L	8260B	120	80-120	LFB	
	0 CIS - 1,2 - DICHLOROETHENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 DIBROMOMETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120	LFB	
	0 METHYL IODIDE	11.9	10	ug/L	8260B	119	80-120	LFB	
	0 METHYLENE CHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 O - XYLENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 STYRENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TETRACHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TOLUENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.4	10	ug/L	8260B	114	80-120	LFB	
	0 TRICHLOROETHENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TRICHLOROFLUOROMETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 VINYL ACETATE	11.3	10	ug/L	8260B	113	80-120	LFB	
	0 VINYL CHLORIDE	4.6	4	ug/L	8260B	115	80-120	LFB	
COD_151103	0 CHEMICAL OXYGEN DEMAND	50	50	mg/L	SM5220 D	100	90-110	LFB	
SIM_151030	0 1,2 - DIBROMOETHANE (EDB SIM)	0.087	0.1	ug/L	8260SIM	87	70-130	LFB	SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.086	0.1	ug/L	8260SIM	86	70-130	LFB	SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.116	0.1	ug/L	8260SIM	116	70-130	LFB	SIMS ANALYSIS
TOC_151030	0 TOTAL ORGANIC CARBON	0.94	1.00	mg/L	SM5310 B	94	90-110	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151103	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_151030	0 AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0	LRB	
	0 IRON	ND		mg/L	6010B		0-0	LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	0 SODIUM	ND		mg/L	6010B		0-0	LRB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
0 VANADIUM	ND		mg/L	6020A		0-0	LRB		
0 ZINC	ND		mg/L	6020A		0-0	LRB		
6020_151112	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
I151028A	0 CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
I151028A	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0		LRB	
TOC_151030	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_151103	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_151030	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	ND		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8260W_151106	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23314

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
COD_151103	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D	0-3		MB	
SIM_151030	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
tds_151030	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3		MB	
TOC_151030	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151103	0 ALKALINITY	99.7	100	mg CaCO3/l	310.2	100	85-115	QCS	
350.1_151030	0 AMMONIA-N	2.93	2.85	mg/L	350.1	103	85-115	QCS	
6010B_151106A	0 CALCIUM	2.01	2	mg/L	6010B	101	90-110	QCS	
	0 IRON	2.09	2	mg/L	6010B	105	90-110	QCS	
	0 MAGNESIUM	2	2	mg/L	6010B	100	90-110	QCS	
	0 SODIUM	2.09	2	mg/L	6010B	105	90-110	QCS	
	1 POTASSIUM	19	20	mg/L	6010B	95	90-110	QCS	
6020_151109	0 ANTIMONY	0.044	0.040	mg/L	6020A	110	90-110	QCS	
	0 ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 BARIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CADMIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CHROMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS		
6020_151112	0 ANTIMONY	0.044	0.040	mg/L	6020A	110	90-110	QCS	
COD_151103	0 CHEMICAL OXYGEN DEMAND	156	162	mg/L	SM5220 D	96	90-110	QCS	
I151028A	0 CHLORIDE	5.8	6	mg/L	300.0	97	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-23314**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I151028A	0 FLUORIDE	3.65	4	mg/L	300.0	91	90-110	QCS	
	0 SULFATE	30.2	30	mg/L	300.0	101	90-110	QCS	
	0 TOTAL NITRATE/NITRITE	11.68	12	mg/L	300.0	97	90-110	QCS	
tds_151030	0 TOTAL DISSOLVED SOLIDS (TDS)	480	500	mg/L	SM2540 C	96	80-120	QCS	
TOC_151030	0 TOTAL ORGANIC CARBON	4.98	5.00	mg/L	SM5310 B	100	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
 QUALITY CONTROL REPORT**
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC	
				Result					Qualifier	Type
Duplicate										
310.2_151103										
	51758	ALKALINITY	538	541		mg/L	0.6	0-20		DUP
	52024	ALKALINITY	575	574		mg/L	0.2	0-20		DUP
	52188	ALKALINITY	698	710		mg/L	1.7	0-20		DUP
350.1_151030										
	50781	AMMONIA-N	0.02	0.01		mg/L	66.7	0-20	IM	DUP
	51472	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	51762	AMMONIA-N	0.01	0.01		mg/L	0.0	0-20		DUP
6010B_151106A										
	51468	IRON	0.15	0.16		mg/L	6.5	0-20		DUP
	51468	CALCIUM	61.3	60.0		mg/L	2.1	0-20		DUP
	51468	MAGNESIUM	74.5	73.7		mg/L	1.1	0-20		DUP
	51468	POTASSIUM	9.5	9.4		mg/L	1.1	0-20		DUP
	51468	SODIUM	45.9	45.4		mg/L	1.1	0-20		DUP
	51762	IRON	0.31	0.31		mg/L	0.0	0-20		DUP
	51762	CALCIUM	138.7	135.4		mg/L	2.4	0-20		DUP
	51762	MAGNESIUM	107.7	105.1		mg/L	2.4	0-20		DUP
	51762	POTASSIUM	9.7	9.6		mg/L	1.0	0-20		DUP
	51762	SODIUM	49.8	48.7		mg/L	2.2	0-20		DUP
	52028	IRON	0.19	0.19		mg/L	0.0	0-20		DUP
	52028	CALCIUM	40.0	40.3		mg/L	0.7	0-20		DUP
	52028	MAGNESIUM	55.1	55.9		mg/L	1.4	0-20		DUP
	52028	POTASSIUM	9.0	9.2		mg/L	2.2	0-20		DUP
	52028	SODIUM	28.7	29.3		mg/L	2.1	0-20		DUP
	52192	IRON	0.17	0.17		mg/L	0.0	0-20		DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	52192	CALCIUM	60.5	60.1	mg/L	0.7	0-20		DUP	
	52192	MAGNESIUM	40.6	40.3	mg/L	0.7	0-20		DUP	
	52192	POTASSIUM	6.1	6.1	mg/L	0.0	0-20		DUP	
	52192	SODIUM	25.8	25.6	mg/L	0.8	0-20		DUP	
6020_151109	51468	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51468	ARSENIC	0.0072	0.0072	mg/L	0.0	0-20		DUP	
	51468	BARIUM	0.065	0.065	mg/L	0.0	0-20		DUP	
	51468	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51468	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	51468	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51468	MANGANESE	0.158	0.159	mg/L	0.6	0-20		DUP	
	51468	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SELENIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	51468	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	51762	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51762	ARSENIC	0.005	0.005	mg/L	0.0	0-20		DUP	
	51762	BARIUM	0.108	0.104	mg/L	3.8	0-20		DUP	
	51762	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51762	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	51762	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51762	MANGANESE	0.224	0.233	mg/L	3.9	0-20		DUP	
	51762	NICKEL	0.011	0.011	mg/L	0.0	0-20		DUP	
	51762	SELENIUM	0.0014	0.0017	mg/L	19.4	0-20		DUP	
	51762	SILVER	ND	ND	mg/L	NA	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	51762	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	51762	VANADIUM	ND	ND	mg/L	NA	0-20			DUP
	51762	ZINC	0.0027	0.002	mg/L	29.8	0-20	IM		DUP
	52028	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	52028	ARSENIC	0.004	0.004	mg/L	0.0	0-20			DUP
	52028	BARIUM	0.031	0.030	mg/L	3.3	0-20			DUP
	52028	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	52028	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	52028	CHROMIUM	ND	ND	mg/L	NA	0-20			DUP
	52028	COBALT	ND	ND	mg/L	NA	0-20			DUP
	52028	COPPER	0.0078	0.007	mg/L	10.8	0-20			DUP
	52028	LEAD	0.0009	0.0009	mg/L	0.0	0-20			DUP
	52028	MANGANESE	0.006	0.0055	mg/L	8.7	0-20			DUP
	52028	NICKEL	0.002	0.002	mg/L	0.0	0-20			DUP
	52028	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	52028	SILVER	ND	ND	mg/L	NA	0-20			DUP
	52028	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	52028	VANADIUM	ND	ND	mg/L	NA	0-20			DUP
	52028	ZINC	0.579	0.563	mg/L	2.8	0-20			DUP
	52192	ANTIMONY	ND	ND	mg/L	NA	0-20			DUP
	52192	ARSENIC	0.006	0.006	mg/L	0.0	0-20			DUP
	52192	BARIUM	0.023	0.024	mg/L	4.3	0-20			DUP
	52192	BERYLLIUM	ND	ND	mg/L	NA	0-20			DUP
	52192	CADMIUM	ND	ND	mg/L	NA	0-20			DUP
	52192	CHROMIUM	ND	ND	mg/L	NA	0-20			DUP
	52192	COBALT	ND	ND	mg/L	NA	0-20			DUP
	52192	COPPER	ND	ND	mg/L	NA	0-20			DUP
	52192	LEAD	ND	ND	mg/L	NA	0-20			DUP
	52192	MANGANESE	0.146	0.134	mg/L	8.6	0-20			DUP
	52192	NICKEL	ND	ND	mg/L	NA	0-20			DUP
	52192	SELENIUM	ND	ND	mg/L	NA	0-20			DUP
	52192	SILVER	ND	ND	mg/L	NA	0-20			DUP
	52192	THALLIUM	ND	ND	mg/L	NA	0-20			DUP
	52192	VANADIUM	ND	ND	mg/L	NA	0-20			DUP

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate	Units	%RPD	Limits	QC		
				Result				Qualifier	Type	Comments
	52192	ZINC	0.067	0.065	mg/L	3.0	0-20		DUP	
COD_151103										
	51485	CHEMICAL OXYGEN DEMAND	149	153	mg/L	2.6	0-20		DUP	
	52023	CHEMICAL OXYGEN DEMAND	ND	ND	mg/L	NA	0-20		DUP	
	52102	CHEMICAL OXYGEN DEMAND	75	78	mg/L	3.9	0-20		DUP	
I151028A										
	51583	CHLORIDE	74.4	74.1	mg/L	0.4	0-20		DUP	
	51583	SULFATE	28.8	28.6	mg/L	0.7	0-20		DUP	
	51759	CHLORIDE	63.8	63.7	mg/L	0.2	0-20		DUP	
	51759	FLUORIDE	ND	ND	mg/L	NA	0-20		DUP	
	51759	SULFATE	64.3	64.2	mg/L	0.2	0-20		DUP	
	51759	TOTAL NITRATE/NITRITE	2.44	2.44	mg/L	0.0	0-20		DUP	
tds_151030										
	51471	TOTAL DISSOLVED SOLIDS (TDS)	364	364	mg/L	0.0	0-10		DUP	
	51766	TOTAL DISSOLVED SOLIDS (TDS)	506	506	mg/L	0.0	0-10		DUP	
	52030	TOTAL DISSOLVED SOLIDS (TDS)	932	934	mg/L	0.2	0-10		DUP	
TOC_151030										
	51287	TOTAL ORGANIC CARBON	0.39	0.37	mg/L	5.3	0-20		DUP	
	51334	TOTAL ORGANIC CARBON	ND	ND	mg/L	NA	0-20		DUP	
	51613	TOTAL ORGANIC CARBON	0.18	0.19	mg/L	5.4	0-20		DUP	
	51765	TOTAL ORGANIC CARBON	1.46	1.38	mg/L	5.6	0-20		DUP	
	52030	TOTAL ORGANIC CARBON	1.07	1.01	mg/L	5.8	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_151103															
	51758	ALKALINITY	538	715	729	250	mg/L	71	76	70-130	7.6	0-20			LFM
	52024	ALKALINITY	575	677	681	125	mg/L	82	85	70-130	3.8	0-20			LFM
	52188	ALKALINITY	698	1080	1220	250	mg/L	153	209	70-130	31.0	0-20	IM		LFM
350.1_151030															
	50781	AMMONIA-N	0.02	1.00	1.06	1.00	mg/L	98	104	70-130	5.9	0-20			LFM
	51472	AMMONIA-N	ND	1.01	1.03	1.00	mg/L	101	103	70-130	2.0	0-20			LFM
	51762	AMMONIA-N	0.01	1.03	1.07	1.00	mg/L	102	106	70-130	3.8	0-20			LFM
6010B_151106A															
	51468	IRON	0.15	1.24	1.22	1.00	mg/L	109	107	75-125	1.9	0-20			LFM
	51468	CALCIUM	61.3	86.0	86.7	26.0	mg/L	95	98	75-125	2.8	0-20			LFM
	51468	MAGNESIUM	74.5	97.9	98.3	26.0	mg/L	90	92	75-125	1.7	0-20			LFM
	51468	POTASSIUM	9.5	41.8	41.4	35.0	mg/L	92	91	75-125	1.2	0-20			LFM
	51762	IRON	0.31	1.38		1.00	mg/L	107		75-125	NA	0-20			LFM
	51762	CALCIUM	138.7	160.0		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	MAGNESIUM	107.7	129.1		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	POTASSIUM	9.7	41.6		35.0	mg/L	91		75-125	NA	0-20			LFM
	52028	IRON	0.19	1.25		1.00	mg/L	106		75-125	NA	0-20			LFM
	52028	CALCIUM	40.0	69.7		26.0	mg/L	114		75-125	NA	0-20			LFM
	52028	MAGNESIUM	55.1	82.9		26.0	mg/L	107		75-125	NA	0-20			LFM
	52028	POTASSIUM	9.0	41.8		35.0	mg/L	94		75-125	NA	0-20			LFM
	52192	IRON	0.17	1.25		1.00	mg/L	108		75-125	NA	0-20			LFM
	52192	CALCIUM	60.5	87.4		26.0	mg/L	103		75-125	NA	0-20			LFM
	52192	MAGNESIUM	40.6	66.3		26.0	mg/L	99		75-125	NA	0-20			LFM
	52192	POTASSIUM	6.1	37.9		35.0	mg/L	91		75-125	NA	0-20			LFM
6020_151109															
	51468	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20			LFM
	51468	ARSENIC	0.0072	0.032		0.025	mg/L	99		75-125	NA	0-20			LFM
	51468	BARIUM	0.065	0.090		0.025	mg/L	100		75-125	NA	0-20			LFM
	51468	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	51468	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	51468	CHROMIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20			LFM
	51468	COBALT	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	51468	COPPER	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	51468	LEAD	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	51468	MANGANESE	0.158	0.184		0.025	mg/L	104		75-125	NA	0-20		LFM	
	51468	NICKEL	0.001	0.026		0.025	mg/L	100		75-125	NA	0-20		LFM	
	51468	SELENIUM	0.001	0.023		0.025	mg/L	88		75-125	NA	0-20		LFM	
	51468	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	51468	THALLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	51468	VANADIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	51468	ZINC	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	51762	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20		LFM	
	51762	ARSENIC	0.005	0.030		0.025	mg/L	100		75-125	NA	0-20		LFM	
	51762	BARIUM	0.108	0.130		0.025	mg/L	88		75-125	NA	0-20		LFM	
	51762	BERYLLIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	51762	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	51762	CHROMIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	51762	COBALT	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	51762	COPPER	0.001	0.027		0.025	mg/L	104		75-125	NA	0-20		LFM	
	51762	LEAD	ND	0.024		0.025	mg/L	96		75-125	NA	0-20		LFM	
	51762	MANGANESE	0.224	0.250		0.025	mg/L	104		75-125	NA	0-20		LFM	
	51762	NICKEL	0.011	0.037		0.025	mg/L	104		75-125	NA	0-20		LFM	
	51762	SELENIUM	0.001	0.025		0.025	mg/L	96		75-125	NA	0-20		LFM	
	51762	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	51762	THALLIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	51762	VANADIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	51762	ZINC	0.0027	0.026		0.025	mg/L	93		75-125	NA	0-20		LFM	
	52028	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20		LFM	
	52028	ARSENIC	0.004	0.029		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	BARIUM	0.031	0.056		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	CHROMIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	52028	COBALT	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	COPPER	0.008	0.032		0.025	mg/L	96		75-125	NA	0-20		LFM	
	52028	LEAD	0.0009	0.026		0.025	mg/L	100		75-125	NA	0-20		LFM	

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NA = Indicates %RPD could not be calculated

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	52028	MANGANESE	0.006	0.032		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	NICKEL	0.002	0.027		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20		LFM	
	52028	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	52028	THALLIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	ZINC	0.579	0.590		0.025	mg/L	44		75-125	NA	0-20	IS	LFM	
	52192	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20		LFM	
	52192	ARSENIC	0.006	0.030		0.025	mg/L	96		75-125	NA	0-20		LFM	
	52192	BARIUM	0.023	0.050		0.025	mg/L	108		75-125	NA	0-20		LFM	
	52192	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	CHROMIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	COBALT	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	COPPER	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	LEAD	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	MANGANESE	0.146	0.171		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	NICKEL	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20		LFM	
	52192	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	52192	THALLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	ZINC	0.067	0.089		0.025	mg/L	88		75-125	NA	0-20		LFM	
8260W_151106															
	52024	1,1 - DICHLOROETHANE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20		LFM	
	52024	1,1 - DICHLOROETHYLENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM	
	52024	1,1,1 - TRICHLOROETHANE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM	
	52024	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM	
	52024	1,1,2 - TRICHLOROETHANE	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20		LFM	
	52024	1,1,2,2 - TETRACHLOROETHANE	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20		LFM	
	52024	1,2 - DICHLOROBENZENE (ortho)	ND	3.9	3.6	4	ug/L	98	90	70-130	8.0	0-20		LFM	
	52024	1,2 - DICHLOROETHANE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20		LFM	
	52024	1,2 - DICHLOROPROPANE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM	
	52024	1,2,3 - TRICHLOROPROPANE	ND	4.5	4.2	4	ug/L	113	105	70-130	6.9	0-20		LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike	Spike	Spike		MS	MSD				Qualifier	Type	
				Result	Result	Conc									
52024	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	5.2	4	ug/L	125	130	70-130	3.9	0-20			LFM	
52024	1,4 - DICHLOROBENZENE (para)	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM	
52024	2-BUTANONE (MEK)	ND				ug/L			70-130	NA	0-20			LFM	
52024	2-HEXANONE	ND				ug/L			70-130	NA	0-20			LFM	
52024	4-METHYL-2-PENTANONE	ND				ug/L			70-130	NA	0-20			LFM	
52024	ACETONE	ND				ug/L			70-130	NA	0-20			LFM	
52024	BENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20			LFM	
52024	BROMOCHLOROMETHANE	ND	3.5	3.6	4	ug/L	88	90	70-130	2.8	0-20			LFM	
52024	BROMODICHLOROMETHANE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0	0-20			LFM	
52024	BROMOFORM	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20			LFM	
52024	BROMOMETHANE	ND	3.9	4.9	4	ug/L	98	123	70-130	22.7	0-20			LFM	
52024	CARBON DISULFIDE	ND				ug/L			70-130	NA	0-20			LFM	
52024	CARBON TETRACHLORIDE	ND	4.0	5.1	4	ug/L	100	128	70-130	24.2	0-20			LFM	
52024	CHLOROBENZENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20			LFM	
52024	CHLOROETHANE	ND	4.8	3.0	4	ug/L	120	75	70-130	46.2	0-20			LFM	
52024	CHLOROFORM	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20			LFM	
52024	CHLOROMETHANE	ND	4.9	4.2	4	ug/L	123	105	70-130	15.4	0-20			LFM	
52024	CIS - 1,2 - DICHLOROETHENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM	
52024	CIS - 1,3 - DICHLOROPROPENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20			LFM	
52024	DIBROMOCHLOROMETHANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6	0-20			LFM	
52024	DIBROMOMETHANE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20			LFM	
52024	ETHYLBENZENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20			LFM	
52024	M,P- XYLENE	ND	8.0	7.4	8	ug/L	100	93	70-130	7.8	0-20			LFM	
52024	METHYL IODIDE	ND				ug/L			70-130	NA	0-20			LFM	
52024	METHYLENE CHLORIDE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20			LFM	
52024	O - XYLENE	ND	4.2	3.8	4	ug/L	105	95	70-130	10.0	0-20			LFM	
52024	STYRENE	ND	4.0	3.7	4	ug/L	100	93	70-130	7.8	0-20			LFM	
52024	TETRACHLOROETHYLENE	ND	3.5	3.5	4	ug/L	88	88	70-130	0.0	0-20			LFM	
52024	TOLUENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1	0-20			LFM	
52024	TRANS - 1,2 - DICHLOROETHENE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20			LFM	
52024	TRANS - 1,3 - DICHLOROPROPENE	ND	3.3	3.7	4	ug/L	83	93	70-130	11.4	0-20			LFM	
52024	TRANS - 1,4 - DICHLORO-2-BUTENE	ND				ug/L			70-130	NA	0-20			LFM	
52024	TRICHLOROETHENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20			LFM	
52024	TRICHLOROFLUOROMETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20			LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments	
				Spike Result	Spike Result			MS	MSD				Qualifier	Type		
	52024	VINYL ACETATE	ND				ug/L			70-130	NA	0-20			LFM	
	52024	VINYL CHLORIDE	ND	5.5	4.8	4	ug/L	138	120	70-130	13.6	0-20	M1		LFM	
COD_151103																
	51485	CHEMICAL OXYGEN DEMAND	149	203	199	50	mg/L	108	100	70-130	7.7	0-20			LFM	
	52023	CHEMICAL OXYGEN DEMAND	ND	59	56	50	mg/L	118	112	70-130	5.2	0-20			LFM	
	52102	CHEMICAL OXYGEN DEMAND	75	128	126	50	mg/L	106	102	70-130	3.8	0-20			LFM	
I151028A																
	51583	CHLORIDE	74.4	92.9		20	mg/L	93	NA	90-110	NA	0-20			LFM	
	51583	SULFATE	28.8	69.2		40	mg/L	101	NA	90-110	NA	0-20			LFM	
	51759	CHLORIDE	63.8	64.5		1	mg/L	70	NA	90-110	NA	0-20	IS		LFM	
	51759	FLUORIDE	ND	0.97		1	mg/L	97	NA	90-110	NA	0-20			LFM	
	51759	SULFATE	64.3	64.7		2	mg/L	20	NA	90-110	NA	0-20	IS		LFM	
	51759	TOTAL NITRATE/NITRITE	2.44	3.96		2	mg/L	76	NA	90-110	NA	0-20	IS		LFM	
SIM_151030																
	52024	1,2 - DIBROMOETHANE (EDB SIM)		0.093	0.099	0.1	ug/L	93	99	70-130	6.3	0-20			LFM	
	52024	ACRYLONITRILE (SIM)		0.072	0.084	0.1	ug/L	72	84	70-130	15.4	0-20			LFM	
	52024	VINYL CHLORIDE (SIM)		0.123	0.127	0.1	ug/L	123	127	70-130	3.2	0-20			LFM	
TOC_151030																
	51287	TOTAL ORGANIC CARBON	0.39	4.24		4.00	mg/L	96		70-130	NA	0-20			LFM	
	51334	TOTAL ORGANIC CARBON	ND	3.79		4.00	mg/L	95		70-130	NA	0-20			LFM	
	51613	TOTAL ORGANIC CARBON	0.18	4.04		4.00	mg/L	97		70-130	NA	0-20			LFM	
	51765	TOTAL ORGANIC CARBON	1.46	5.17		4.00	mg/L	93		70-130	NA	0-20			LFM	
	52030	TOTAL ORGANIC CARBON	1.07	4.69		4.00	mg/L	91		70-130	NA	0-20			LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-23314

Report Date: 11/13/15

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Matrix bias indicated.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)



REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	REF#
ADDRESS: 2405 140TH AVE. NE STE 107	ADDRESS: PO Box 5000	CHECK REGULATORY PROGRAM
CITY: BELLEVUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	<input type="checkbox"/> SAFE DRINKING WATER ACT
ATTN: ELENA RAMIREZ <i>Dan Vencharathi</i>	PHONE: 360-678-7338 FAX:	<input type="checkbox"/> CLEAN WATER ACT
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#:	<input type="checkbox"/> RCRA / CERCLA
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> M/C <input type="checkbox"/> A/E	<input type="checkbox"/> OTHER
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	

Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

Dan Vencharathi @scsengineers.com

ANALYSIS REQUESTED

- INSTRUCTIONS**
- USE ONE LINE PER SAMPLE LOCATION.
 - BE SPECIFIC IN TEST REQUESTS.
 - NEW LIST EACH METAL INDIVIDUALLY. NEW
 - CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
 - ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) (PHONE CALL REQ.)
 EMERGENCY (PHONE CALL REQUIRED)

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3,COD	8260B	8260SIM	Chloride, Sulfate,TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINER	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1015-07	Coupeville Landfill	G	GW	10/27/15	929	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-08	Coupeville Landfill	G	GW	945		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-09	Coupeville Landfill	G	GW	1030		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-10	Coupeville Landfill	G	GW	1258		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-11	Coupeville Landfill	G	GW	1404		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-12	Coupeville Landfill	G	GW	1517		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-13	Coupeville Landfill	G	GW	1530		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-14	Coupeville Landfill	G	GW	1637		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-15	Coupeville Landfill	G	GW	1751		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
1015-	Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
SAMPLED BY: <i>Sara Grabar</i> PHONE: FAX:														99	▲ TOTAL CONTAINERS

15-23314
 51758 - 51766

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER DW-DRINKING WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL

RELINQUISHED BY: *Sara Grabar* DATE: *10/28/15* TIME: *1730* RECEIVED BY: *[Signature]* DATE: *10-28-15* TIME: *1440*

CUSTOMY SEALS INTACT YES NO N/A

SAMPLE TEMP *21.6* °C SATISFACTORY YES NO N/A

EVIDENCE OF COOLING YES NO N/A

SAMPLES RECEIVED INTACT YES NO N/A

CHAIN OF CUSTODY & LABELS AGREE YES NO N/A



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 13, 2015

Page 1 of 1

Dan Venchiarutti
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-23430 - Coupeville Landfill

Dear Dan Venchiarutti,

Your project: Coupeville Landfill, was received on Thursday October 29, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



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 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400
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 Corvallis, OR Microbiology/Chemistry (d)
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946
 Bend, OR Microbiology (e)
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-23430**
 Project: Coupeville Landfill

Report Date: 11/13/15

Date Received: 10/29/15

Approved by: bj,mvp

Authorized by:

Lawrence J Henderson, PhD
 Director of Laboratories, Vice President

Sample Description: 1015-16 - Coupeville Landfill Sample Date: 10/28/15 10:18 am
 Lab Number: 52023 Sample Comment: Collected By: Sam Graber

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	31.5	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	0.12	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	15.8	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	355	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	355	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.02	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	428	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.89	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	74.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	44.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.3	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	27.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.253	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	ND	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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D.F. - Dilution Factor

Data Report

Sample Description: 1015-17 - Coupeville Landfill									Sample Date: 10/28/15 11:22 am			
Lab Number: 52024			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	37.9	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	37.4	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	0.6	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	575	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	575	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	654	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.61	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	149.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	54.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	32.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.045	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.007	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.002	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.006	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-18 - Coupeville Landfill									Sample Date: 10/28/15 1:37 pm			
Lab Number: 52025			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	34.4	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	36.1	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	284	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	284	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	382	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.66	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	65.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.29	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	36.4	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	27.1	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/12/15	MVP	6020_151112	
7440-38-2	ARSENIC	ND	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.021	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.003	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.023	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.007	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-19 - Coupeville Landfill									Sample Date: 10/28/15 2:43 pm			
Lab Number: 52026			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	15	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	60.4	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	5.19	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	330	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	330	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	10/30/15	ANP	350.1_151030	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	466	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.71	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	105.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	33.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	18.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.029	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.004	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.004	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.004	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.002	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-20 - Coupeville Landfill									Sample Date: 10/28/15 3:50 pm			
Lab Number: 52027			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	33.1	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	11	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	239	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	239	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.05	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	288	40		mg/L	4.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	11	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	0.94	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	45.9	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	31.76	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	33.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	11.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	20.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-66-6	ZINC	3.128	0.020	0.0003	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	0.003	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/12/15	MVP	6020_151112	
7440-38-2	ARSENIC	0.062	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.055	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.025	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.614	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	0.044	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.339	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.012	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-21 - Coupeville Landfill									Sample Date: 10/28/15 4:30 pm			
Lab Number: 52028			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	38.7	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	15.6	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	0.46	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	327	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	327	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	396	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.27	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	40.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.19	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	55.1	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	9.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	28.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.004	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.031	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.008	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	0.0009	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.006	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.579	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-22 - Coupeville Landfill									Sample Date: 10/28/15 5:23 pm			
Lab Number: 52029			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	87.5	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	40.7	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	12.1	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	392	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	392	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	628	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	tds_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.00	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	139.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	51.9	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	29.4	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.035	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.014	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.026	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.004	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-23 - Coupeville Landfill									Sample Date: 10/28/15 6:30 pm			
Lab Number: 52030			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	74.5	0.1	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
14808-79-8	SULFATE	48.1	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-10128	TOTAL NITRATE/NITRITE	0.16	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151029A	
E-14506	ALKALINITY	860	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	860	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	932	20		mg/L	2.0	SM2540 C	a	10/30/15	MMH	ids_151030	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/3/15	ANP	COD_151103	
E-10195	TOTAL ORGANIC CARBON	1.07	0.15	0.05	mg/L	1.0	SM5310 B	a	10/31/15	BJ	TOC_151030	
7440-70-2	CALCIUM	174.3	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	111.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	8.5	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	47.0	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.004	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.044	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	0.001	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.042	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.007	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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 D.F. - Dilution Factor



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52030
Field ID: 1015-23
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52030
Field ID: 1015-23
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0256		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52029
Field ID: 1015-22
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/2/15
Extraction Method: 3510C

Report Date: 11/13/15
Date Analyzed: 11/4/15
Analyst: RJK
Analytical Method: 8151A
Batch: 8151W_151102
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
50594-66-1	ACIFLUORFEN	ND		ug/L	0.1	0.1	0.15	1.00	a	
55336-06-1	TRICLOPYR	ND		ug/L	0.1	0.1	0.02	1.00	a	
94-75-7	2,4 - D	ND		ug/L	0.1	0.1	0.05	1.00	a	
94-82-6	2,4 DB	ND		ug/L	0.8	0.8	0.22	1.00	a	
93-72-1	2,4,5 - TP (SILVEX)	ND		ug/L	0.1	0.1	0.04	1.00	a	
93-76-5	2,4,5 T	ND		ug/L	0.1	0.1	0.03	1.00	a	
75-99-0	DALAPON	ND		ug/L	1.3	1.3	0.77	1.00	a	
1918-00-9	DICAMBA	4.4		ug/L	0.1	0.1	0.03	1.00	a	
120-36-5	DICHLORPROP	ND		ug/L	0.1	0.1	0.05	1.00	a	
88-85-7	DINOSEB	ND		ug/L	0.1	0.1	0.13	1.00	a	
94-74-6	MCPA	ND		ug/L	0.1	0.1	0.03	1.00	a	
7085-19-0	MCPP	ND		ug/L	0.1	0.1	0.03	1.00	a	
87-86-5	PENTACHLOROPHENOL	ND		ug/L	0.1	0.1	0.02	1.00	a	
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND		ug/L	0.5	0.5	0.02	1.00	a	
25057-89-1	BENTAZON	ND		ug/L	0.5	0.5	0.03	1.00	a	
133-90-4	CHLORAMBEN	ND		ug/L	0.2	0.2	0.1	1.00	a	
1861-32-1	TOTAL DCPA	ND		ug/L	0.1	0.1	0.04	1.00	a	
1918-02-1	PICLORAM	ND		ug/L	0.2	0.2	0.03	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52029
Field ID: 1015-22
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.4		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52029
Field ID: 1015-22
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52028
Field ID: 1015-21
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52028
Field ID: 1015-21
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52027
Field ID: 1015-20
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52027
Field ID: 1015-20
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52026
Field ID: 1015-19
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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D.F. - Dilution Factor.



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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52026
Field ID: 1015-19
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52025
Field ID: 1015-18
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52025
Field ID: 1015-18
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52024
Field ID: 1015-17
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52024
Field ID: 1015-17
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52023
Field ID: 1015-16
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23430**
Project: Coupeville Landfill

Lab Number: 52023
Field ID: 1015-16
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/28/15
Extraction Date: 10/30/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 10/30/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151030
Approved By: co,hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
 ND - indicates the compound was not detected above the PQL or MDL.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_151030	0 AMMONIA-N	2.61	2.50	mg/L	350.1	104	90-110	CAL	
350.1_151105	0 AMMONIA-N	2.58	2.50	mg/L	350.1	103	90-110	CAL	
6010B_151106A	2 CALCIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 IRON	1.05	1	mg/L	6010B	105	90-110	CAL	
	2 MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 POTASSIUM	9.1	10	mg/L	6010B	91	90-110	CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110	CAL	
	2 ZINC	1.03	1	mg/L	6010B	103	90-110	CAL	
6020_151109	0 ANTIMONY	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 ARSENIC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 BERYLLIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 CADMIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CHROMIUM	0.00092	0.001	mg/L	6020A	92	80-120	CAL	
	0 COBALT	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 LEAD	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	0 MANGANESE	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 NICKEL	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 THALLIUM	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
0 VANADIUM	0.00096	0.001	mg/L	6020A	96	80-120	CAL		
0 ZINC	0.001	0.001	mg/L	6020A	100	80-120	CAL		
6020_151112	0 ANTIMONY	0.001	0.001	mg/L	6020A	100	80-120	CAL	
1151029A	0 CHLORIDE	1	1	mg/L	300.0	100	90-110	CAL	
	0 FLUORIDE	0.92	1	mg/L	300.0	92	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
I151029A	0 SULFATE	2	2	mg/L	300.0	100	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.09	2	mg/L	300.0	105	90-110	CAL	
TOC_151030	0 TOTAL ORGANIC CARBON	2.45	2.50	mg/L	SM5310 B	98	90-110	CAL	
	1 TOTAL ORGANIC CARBON	103.1	100.0	mg/L	SM5310 B	103	90-110	CAL	
	2 TOTAL ORGANIC CARBON	4.95	5.00	mg/L	SM5310 B	99	90-110	CAL	
	3 TOTAL ORGANIC CARBON	0.46	0.50	mg/L	SM5310 B	92	90-110	CAL	
	4 TOTAL ORGANIC CARBON	0.11	0.15	mg/L	SM5310 B	73	90-110	CAL	MRL +/-30%

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	Comment
6010B_151106A	0 CALCIUM	28	26	mg/L	6010B	108	85-115	LFB	
	0 IRON	1.08	1	mg/L	6010B	108	85-115	LFB	
	0 MAGNESIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
	0 POTASSIUM	33	35	mg/L	6010B	94	85-115	LFB	
	0 SODIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
	0 ZINC	1.01	1	mg/L	6010B	101	85-115	LFB	
6020_151109	0 ANTIMONY	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 ARSENIC	0.027	0.025	mg/L	6020A	108	80-120	LFB	
	0 BARIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 BERYLLIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 CADMIUM	0.024	0.025	mg/L	6020A	96	80-120	LFB	
	0 CHROMIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 COBALT	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 COPPER	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 LEAD	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 MANGANESE	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 NICKEL	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 SELENIUM	0.022	0.025	mg/L	6020A	88	80-120	LFB	
	0 SILVER	0.012	0.0125	mg/L	6020A	96	80-120	LFB	
	0 THALLIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 VANADIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
0 ZINC	0.023	0.025	mg/L	6020A	92	80-120	LFB		
8151W_151102	0 2,4 - D	1.8	2	ug/L	8151A	90	60-120	LFB	
	0 2,4 DB	4.3	8	ug/L	8151A	54	49-136	LFB	
	0 2,4,5 - TP (SILVEX)	0.9	1	ug/L	8151A	90	68-122	LFB	
	0 2,4,5 T	1	1	ug/L	8151A	100	62-128	LFB	
	0 ACIFLUORFEN	1	1	ug/L	8151A	100	65-125	LFB	
	0 BENTAZON	2.1	2	ug/L	8151A	105	67-121	LFB	
	0 DALAPON	10.4	13	ug/L	8151A	80	53-142	LFB	
	0 DICAMBA	0.9	1	ug/L	8151A	90	66-126	LFB	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8151W_151102	0 DICHLORPROP	2.7	3	ug/L	8151A	90	63-123	LFB	
	0 DINOSEB	1.6	2	ug/L	8151A	80	73-127	LFB	
	0 MCPA	0.8	1	ug/L	8151A	80	49-121	LFB	
	0 MCPP	0.7	1	ug/L	8151A	70	48-126	LFB	
	0 PENTACHLOROPHENOL	1.1	1	ug/L	8151A	110	69-123	LFB	
	0 PICLORAM	1.1	1	ug/L	8151A	110	48-114	LFB	
	0 TOTAL DCPA	1	1	ug/L	8151A	100	48-168	LFB	
	0 TRICLOPYR	0.8	1	ug/L	8151A	80	70-130	LFB	
8260W_151106	0 1,1 - DICHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,2 - DICHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 1,2,3 - TRICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 1,4 - DICHLOROBENZENE (para)	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 2-BUTANONE (MEK)	12	10	ug/L	8260B	120	80-120	LFB	
	0 2-HEXANONE	11.9	10	ug/L	8260B	119	80-120	LFB	
	0 4-METHYL-2-PENTANONE	11.8	10	ug/L	8260B	118	80-120	LFB	
	0 ACETONE	12.9	10	ug/L	8260B	129	80-120	HR	LFB
	0 BENZENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 BROMOCHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 BROMODICHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 BROMOFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
0 BROMOMETHANE	3.8	4	ug/L	8260B	95	80-120	LFB		
0 CARBON DISULFIDE	11.4	10	ug/L	8260B	114	80-120	LFB		
0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB		

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NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_151106	0 CHLOROBENZENE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 CHLOROETHANE	3.5	4	ug/L	8260B	88	80-120	LFB		
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 CHLOROMETHANE	4.8	4	ug/L	8260B	120	80-120	LFB		
	0 CIS - 1,2 - DICHLOROETHENE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB		
	0 DIBROMOMETHANE	4.5	4	ug/L	8260B	113	80-120	LFB		
	0 ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120	LFB		
	0 METHYL IODIDE	11.9	10	ug/L	8260B	119	80-120	LFB		
	0 METHYLENE CHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB		
	0 O - XYLENE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 STYRENE	3.9	4	ug/L	8260B	98	80-120	LFB		
	0 TETRACHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB		
	0 TOLUENE	3.9	4	ug/L	8260B	98	80-120	LFB		
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB		
	0 TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120	LFB		
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.4	10	ug/L	8260B	114	80-120	LFB		
	0 TRICHLOROETHENE	3.9	4	ug/L	8260B	98	80-120	LFB		
0 TRICHLOROFUOROMETHANE	4.6	4	ug/L	8260B	115	80-120	LFB			
0 VINYL ACETATE	11.3	10	ug/L	8260B	113	80-120	LFB			
0 VINYL CHLORIDE	4.6	4	ug/L	8260B	115	80-120	LFB			
COD_151103	0 CHEMICAL OXYGEN DEMAND	50	50	mg/L	SM5220 D	100	90-110	LFB		
SIM_151030	0 1,2 - DIBROMOETHANE (EDB SIM)	0.087	0.1	ug/L	8260SIM	87	70-130	LFB		SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.086	0.1	ug/L	8260SIM	86	70-130	LFB		SIMS ANALYSIS
	0 VINYL CHLORIDE (SIM)	0.116	0.1	ug/L	8260SIM	116	70-130	LFB		SIMS ANALYSIS
SIM_151102	0 1,2 - DIBROMOETHANE (EDB SIM)	0.096	0.1	ug/L	8260SIM	96	70-130	LFB		SIMS ANALYSIS
	0 ACRYLONITRILE (SIM)	0.081	0.1	ug/L	8260SIM	81	70-130	LFB		SIMS ANALYSIS

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
SIM_151102	0 VINYL CHLORIDE (SIM)	0.097	0.1	ug/L	8260SIM	97	70-130	LFB		SIMS ANALYSIS
TOC_151030	0 TOTAL ORGANIC CARBON	0.94	1.00	mg/L	SM5310 B	94	90-110	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_151103	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		LRB	
350.1_151030	0 AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
350.1_151105	0 AMMONIA-N	ND		mg/L	350.1		0-0		LRB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0		LRB	
	0 IRON	ND		mg/L	6010B		0-0		LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		LRB	
	0 SODIUM	ND		mg/L	6010B		0-0		LRB	
	0 ZINC	ND		mg/L	6010B		0-0		LRB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0		LRB	
	0 BARIUM	ND		mg/L	6020A		0-0		LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0		LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		LRB	
	0 COBALT	ND		mg/L	6020A		0-0		LRB	
	0 COPPER	ND		mg/L	6020A		0-0		LRB	
	0 LEAD	ND		mg/L	6020A		0-0		LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0		LRB	
	0 NICKEL	ND		mg/L	6020A		0-0		LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0		LRB	
	0 SILVER	ND		mg/L	6020A		0-0		LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0		LRB	
0 VANADIUM	ND		mg/L	6020A		0-0		LRB		
0 ZINC	ND		mg/L	6020A		0-0		LRB		
6020_151112	0 ANTIMONY	ND		mg/L	6020A		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True		Method	% Recovery Limits*		QC	QC	Comment
			Value	Units		Recovery	Limits*	Qualifier	Type	
I151029A	0 CHLORIDE	ND		mg/L	300.0	0-0		LRB		
	0 FLUORIDE	ND		mg/L	300.0	0-0		LRB		
	0 SULFATE	ND		mg/L	300.0	0-0		LRB		
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0	0-0		LRB		
TOC_151030	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		LRB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_151103	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_151030	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
350.1_151105	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
	0 ZINC	ND		mg/L	6010B		0-0		MB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	ND		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8151W_151102	0 2,4 - D	ND		ug/L	8151A		0-0		MB	
	0 2,4 DB	ND		ug/L	8151A		0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8151W_151102	0 2,4,5 - TP (SILVEX)	ND		ug/L	8151A	0-0		MB	
	0 2,4,5 T	ND		ug/L	8151A	0-0		MB	
	0 ACIFLUORFEN	ND		ug/L	8151A	0-0		MB	
	0 BENTAZON	ND		ug/L	8151A	0-0		MB	
	0 DALAPON	ND		ug/L	8151A	0-0		MB	
	0 DICAMBA	ND		ug/L	8151A	0-0		MB	
	0 DICHLORPROP	ND		ug/L	8151A	0-0		MB	
	0 DINOSEB	ND		ug/L	8151A	0-0		MB	
	0 MCPA	ND		ug/L	8151A	0-0		MB	
	0 MCPP	ND		ug/L	8151A	0-0		MB	
	0 PENTACHLOROPHENOL	ND		ug/L	8151A	0-0		MB	
	0 PICLORAM	ND		ug/L	8151A	0-0		MB	
	0 TOTAL DCPA	ND		ug/L	8151A	0-0		MB	
	0 TRICLOPYR	ND		ug/L	8151A	0-0		MB	
8260W_151106	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23314
0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314	
COD_151103	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D	0-3		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
SIM_151030	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23177
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23314
SIM_151102	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23430
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23430
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23430
	1 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23522
	1 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23522
	1 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23522
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23525
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23525
	2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM	0-0		MB	TB 15-23525
tds_151030	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C	0-3		MB	
TOC_151030	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B	0-0		MB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151103	0 ALKALINITY	99.7	100	mg CaCO3/l	310.2	100	85-115	QCS	
350.1_151030	0 AMMONIA-N	2.93	2.85	mg/L	350.1	103	85-115	QCS	
350.1_151105	0 AMMONIA-N	2.89	2.85	mg/L	350.1	101	85-115	QCS	
6010B_151106A	0 CALCIUM	2.01	2	mg/L	6010B	101	90-110	QCS	
	0 IRON	2.09	2	mg/L	6010B	105	90-110	QCS	
	0 MAGNESIUM	2	2	mg/L	6010B	100	90-110	QCS	
	0 SODIUM	2.09	2	mg/L	6010B	105	90-110	QCS	
	0 ZINC	2.02	2	mg/L	6010B	101	90-110	QCS	
	1 POTASSIUM	19	20	mg/L	6010B	95	90-110	QCS	
6020_151109	0 ANTIMONY	0.044	0.040	mg/L	6020A	110	90-110	QCS	
	0 ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 BARIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CADMIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CHROMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS		
6020_151112	0 ANTIMONY	0.044	0.040	mg/L	6020A	110	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-23430**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
COD_151103	0 CHEMICAL OXYGEN DEMAND	156	162	mg/L	SM5220 D	96	90-110	QCS	
I151029A	0 CHLORIDE	5.8	6	mg/L	300.0	97	90-110	QCS	
	0 FLUORIDE	3.64	4	mg/L	300.0	91	90-110	QCS	
	0 SULFATE	30.1	30	mg/L	300.0	100	90-110	QCS	
	0 TOTAL NITRATE/NITRITE	11.6	12	mg/L	300.0	97	90-110	QCS	
tds_151030	0 TOTAL DISSOLVED SOLIDS (TDS)	480	500	mg/L	SM2540 C	96	80-120	QCS	
TOC_151030	0 TOTAL ORGANIC CARBON	4.98	5.00	mg/L	SM5310 B	100	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
 QUALITY CONTROL REPORT**
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC	
				Result					Qualifier	Type
Duplicate										
310.2_151103										
	51758	ALKALINITY	538	541		mg/L	0.6	0-20		DUP
	52024	ALKALINITY	575	574		mg/L	0.2	0-20		DUP
	52188	ALKALINITY	698	710		mg/L	1.7	0-20		DUP
350.1_151030										
	50781	AMMONIA-N	0.02	0.01		mg/L	66.7	0-20	IM	DUP
	51472	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	51762	AMMONIA-N	0.01	0.01		mg/L	0.0	0-20		DUP
350.1_151105										
	52189	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	52895	AMMONIA-N	14.4	14.5		mg/L	0.7	0-20		DUP
6010B_151106A										
	51468	IRON	0.15	0.16		mg/L	6.5	0-20		DUP
	51468	CALCIUM	61.3	60.0		mg/L	2.1	0-20		DUP
	51468	MAGNESIUM	74.5	73.7		mg/L	1.1	0-20		DUP
	51468	POTASSIUM	9.5	9.4		mg/L	1.1	0-20		DUP
	51468	SODIUM	45.9	45.4		mg/L	1.1	0-20		DUP
	51762	IRON	0.31	0.31		mg/L	0.0	0-20		DUP
	51762	CALCIUM	138.7	135.4		mg/L	2.4	0-20		DUP
	51762	MAGNESIUM	107.7	105.1		mg/L	2.4	0-20		DUP
	51762	POTASSIUM	9.7	9.6		mg/L	1.0	0-20		DUP
	51762	SODIUM	49.8	48.7		mg/L	2.2	0-20		DUP
	52028	IRON	0.19	0.19		mg/L	0.0	0-20		DUP
	52028	CALCIUM	40.0	40.3		mg/L	0.7	0-20		DUP
	52028	MAGNESIUM	55.1	55.9		mg/L	1.4	0-20		DUP

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	52028	POTASSIUM	9.0	9.2	mg/L	2.2	0-20		DUP	
	52028	SODIUM	28.7	29.3	mg/L	2.1	0-20		DUP	
	52192	IRON	0.17	0.17	mg/L	0.0	0-20		DUP	
	52192	CALCIUM	60.5	60.1	mg/L	0.7	0-20		DUP	
	52192	MAGNESIUM	40.6	40.3	mg/L	0.7	0-20		DUP	
	52192	POTASSIUM	6.1	6.1	mg/L	0.0	0-20		DUP	
	52192	SODIUM	25.8	25.6	mg/L	0.8	0-20		DUP	
6020_151109										
	51468	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51468	ARSENIC	0.0072	0.0072	mg/L	0.0	0-20		DUP	
	51468	BARIUM	0.065	0.065	mg/L	0.0	0-20		DUP	
	51468	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51468	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	51468	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51468	MANGANESE	0.158	0.159	mg/L	0.6	0-20		DUP	
	51468	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SELENIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	51468	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	51762	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51762	ARSENIC	0.005	0.005	mg/L	0.0	0-20		DUP	
	51762	BARIUM	0.108	0.104	mg/L	3.8	0-20		DUP	
	51762	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51762	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	51762	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51762	MANGANESE	0.224	0.233	mg/L	3.9	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result					Qualifier	Type	Comments
	51762	NICKEL	0.011	0.011		mg/L	0.0	0-20		DUP	
	51762	SELENIUM	0.0014	0.0017		mg/L	19.4	0-20		DUP	
	51762	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	51762	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	51762	VANADIUM	ND	ND		mg/L	NA	0-20		DUP	
	51762	ZINC	0.0027	0.002		mg/L	29.8	0-20	IM	DUP	
	52028	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	52028	ARSENIC	0.004	0.004		mg/L	0.0	0-20		DUP	
	52028	BARIUM	0.031	0.030		mg/L	3.3	0-20		DUP	
	52028	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	52028	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	52028	CHROMIUM	ND	ND		mg/L	NA	0-20		DUP	
	52028	COBALT	ND	ND		mg/L	NA	0-20		DUP	
	52028	COPPER	0.0078	0.007		mg/L	10.8	0-20		DUP	
	52028	LEAD	0.0009	0.0009		mg/L	0.0	0-20		DUP	
	52028	MANGANESE	0.006	0.0055		mg/L	8.7	0-20		DUP	
	52028	NICKEL	0.002	0.002		mg/L	0.0	0-20		DUP	
	52028	SELENIUM	ND	ND		mg/L	NA	0-20		DUP	
	52028	SILVER	ND	ND		mg/L	NA	0-20		DUP	
	52028	THALLIUM	ND	ND		mg/L	NA	0-20		DUP	
	52028	VANADIUM	ND	ND		mg/L	NA	0-20		DUP	
	52028	ZINC	0.579	0.563		mg/L	2.8	0-20		DUP	
	52192	ANTIMONY	ND	ND		mg/L	NA	0-20		DUP	
	52192	ARSENIC	0.006	0.006		mg/L	0.0	0-20		DUP	
	52192	BARIUM	0.023	0.024		mg/L	4.3	0-20		DUP	
	52192	BERYLLIUM	ND	ND		mg/L	NA	0-20		DUP	
	52192	CADMIUM	ND	ND		mg/L	NA	0-20		DUP	
	52192	CHROMIUM	ND	ND		mg/L	NA	0-20		DUP	
	52192	COBALT	ND	ND		mg/L	NA	0-20		DUP	
	52192	COPPER	ND	ND		mg/L	NA	0-20		DUP	
	52192	LEAD	ND	ND		mg/L	NA	0-20		DUP	
	52192	MANGANESE	0.146	0.134		mg/L	8.6	0-20		DUP	
	52192	NICKEL	ND	ND		mg/L	NA	0-20		DUP	
	52192	SELENIUM	ND	ND		mg/L	NA	0-20		DUP	

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Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	52192	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	52192	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	52192	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	52192	ZINC	0.067	0.065	mg/L	3.0	0-20		DUP	
8151W_151102										
	52029	CHLORAMBEN			ug/L		0-35		DUP	
	52029	DICAMBA	4.4	3.6	ug/L	20.0	0-35		DUP	
COD_151103										
	51485	CHEMICAL OXYGEN DEMAND	149	153	mg/L	2.6	0-20		DUP	
	52023	CHEMICAL OXYGEN DEMAND	ND	ND	mg/L	NA	0-20		DUP	
	52102	CHEMICAL OXYGEN DEMAND	75	78	mg/L	3.9	0-20		DUP	
1151029A										
	51652	CHLORIDE	3.3	3.3	mg/L	0.0	0-20		DUP	
	51652	SULFATE	29.9	29.8	mg/L	0.3	0-20		DUP	
	51838	CHLORIDE	27.2	27.1	mg/L	0.4	0-20		DUP	
	51838	FLUORIDE	ND	ND	mg/L	NA	0-20		DUP	
	52028	CHLORIDE	38.7	38.7	mg/L	0.0	0-20		DUP	
	52028	FLUORIDE	ND	ND	mg/L	NA	0-20		DUP	
	52028	SULFATE	15.6	15.6	mg/L	0.0	0-20		DUP	
	52028	TOTAL NITRATE/NITRITE	0.46	0.46	mg/L	0.0	0-20		DUP	
tds_151030										
	51471	TOTAL DISSOLVED SOLIDS (TDS)	364	364	mg/L	0.0	0-10		DUP	
	51766	TOTAL DISSOLVED SOLIDS (TDS)	506	506	mg/L	0.0	0-10		DUP	
	52030	TOTAL DISSOLVED SOLIDS (TDS)	932	934	mg/L	0.2	0-10		DUP	
TOC_151030										
	51287	TOTAL ORGANIC CARBON	0.39	0.37	mg/L	5.3	0-20		DUP	
	51334	TOTAL ORGANIC CARBON	ND	ND	mg/L	NA	0-20		DUP	
	51613	TOTAL ORGANIC CARBON	0.18	0.19	mg/L	5.4	0-20		DUP	
	51765	TOTAL ORGANIC CARBON	1.46	1.38	mg/L	5.6	0-20		DUP	
	52030	TOTAL ORGANIC CARBON	1.07	1.01	mg/L	5.8	0-20		DUP	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Limits*			Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_151103															
	51758	ALKALINITY	538	715	729	250	mg/L	71	76	70-130	7.6	0-20			LFM
	52024	ALKALINITY	575	677	681	125	mg/L	82	85	70-130	3.8	0-20			LFM
	52188	ALKALINITY	698	1080	1220	250	mg/L	153	209	70-130	31.0	0-20	IM		LFM
350.1_151030															
	50781	AMMONIA-N	0.02	1.00	1.06	1.00	mg/L	98	104	70-130	5.9	0-20			LFM
	51472	AMMONIA-N	ND	1.01	1.03	1.00	mg/L	101	103	70-130	2.0	0-20			LFM
	51762	AMMONIA-N	0.01	1.03	1.07	1.00	mg/L	102	106	70-130	3.8	0-20			LFM
350.1_151105															
	52027	AMMONIA-N	0.05	1.04	1.07	1.00	mg/L	99	102	70-130	3.0	0-20			LFM
	52189	AMMONIA-N	ND	0.97	1.01	1.00	mg/L	97	101	70-130	4.0	0-20			LFM
	52895	AMMONIA-N	14.4	15.2	15.2	1.00	mg/L	80	80	70-130	0.0	0-20			LFM
6010B_151106A															
	51468	IRON	0.15	1.24	1.22	1.00	mg/L	109	107	75-125	1.9	0-20			LFM
	51468	CALCIUM	61.3	86.0	86.7	26.0	mg/L	95	98	75-125	2.8	0-20			LFM
	51468	MAGNESIUM	74.5	97.9	98.3	26.0	mg/L	90	92	75-125	1.7	0-20			LFM
	51468	POTASSIUM	9.5	41.8	41.4	35.0	mg/L	92	91	75-125	1.2	0-20			LFM
	51762	IRON	0.31	1.38		1.00	mg/L	107		75-125	NA	0-20			LFM
	51762	CALCIUM	138.7	160.0		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	MAGNESIUM	107.7	129.1		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	POTASSIUM	9.7	41.6		35.0	mg/L	91		75-125	NA	0-20			LFM
	52028	IRON	0.19	1.25		1.00	mg/L	106		75-125	NA	0-20			LFM
	52028	CALCIUM	40.0	69.7		26.0	mg/L	114		75-125	NA	0-20			LFM
	52028	MAGNESIUM	55.1	82.9		26.0	mg/L	107		75-125	NA	0-20			LFM
	52028	POTASSIUM	9.0	41.8		35.0	mg/L	94		75-125	NA	0-20			LFM
	52192	IRON	0.17	1.25		1.00	mg/L	108		75-125	NA	0-20			LFM
	52192	CALCIUM	60.5	87.4		26.0	mg/L	103		75-125	NA	0-20			LFM
	52192	MAGNESIUM	40.6	66.3		26.0	mg/L	99		75-125	NA	0-20			LFM
	52192	POTASSIUM	6.1	37.9		35.0	mg/L	91		75-125	NA	0-20			LFM
6020_151109															
	51468	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20			LFM
	51468	ARSENIC	0.0072	0.032		0.025	mg/L	99		75-125	NA	0-20			LFM
	51468	BARIUM	0.065	0.090		0.025	mg/L	100		75-125	NA	0-20			LFM

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	51468	BERYLLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	CHROMIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51468	COBALT	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	COPPER	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51468	LEAD	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	MANGANESE	0.158	0.184		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	NICKEL	0.001	0.026		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	SELENIUM	0.001	0.023		0.025	mg/L	88			75-125	NA	0-20		LFM	
	51468	SILVER	ND	0.012		0.0125	mg/L	96			75-125	NA	0-20		LFM	
	51468	THALLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	VANADIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51468	ZINC	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	ANTIMONY	ND	0.028		0.025	mg/L	112			75-125	NA	0-20		LFM	
	51762	ARSENIC	0.005	0.030		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	BARIUM	0.108	0.130		0.025	mg/L	88			75-125	NA	0-20		LFM	
	51762	BERYLLIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	CHROMIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	COBALT	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	COPPER	0.001	0.027		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	LEAD	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	51762	MANGANESE	0.224	0.250		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	NICKEL	0.011	0.037		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	SELENIUM	0.001	0.025		0.025	mg/L	96			75-125	NA	0-20		LFM	
	51762	SILVER	ND	0.012		0.0125	mg/L	96			75-125	NA	0-20		LFM	
	51762	THALLIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	VANADIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	ZINC	0.0027	0.026		0.025	mg/L	93			75-125	NA	0-20		LFM	
	52028	ANTIMONY	ND	0.028		0.025	mg/L	112			75-125	NA	0-20		LFM	
	52028	ARSENIC	0.004	0.029		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	BARIUM	0.031	0.056		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	BERYLLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	52028	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	

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				Spike Result	Spike Result			MS	MSD	Limits*			Qualifier	Type	
	52028	CHROMIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20		LFM	
	52028	COBALT	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	COPPER	0.008	0.032		0.025	mg/L	96		75-125	NA	0-20		LFM	
	52028	LEAD	0.0009	0.026		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	MANGANESE	0.006	0.032		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	NICKEL	0.002	0.027		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20		LFM	
	52028	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	52028	THALLIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	ZINC	0.579	0.590		0.025	mg/L	44		75-125	NA	0-20	IS	LFM	
	52192	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20		LFM	
	52192	ARSENIC	0.006	0.030		0.025	mg/L	96		75-125	NA	0-20		LFM	
	52192	BARIUM	0.023	0.050		0.025	mg/L	108		75-125	NA	0-20		LFM	
	52192	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	CHROMIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	COBALT	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	COPPER	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	LEAD	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	MANGANESE	0.146	0.171		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	NICKEL	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20		LFM	
	52192	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	52192	THALLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	ZINC	0.067	0.089		0.025	mg/L	88		75-125	NA	0-20		LFM	
8151W_151102															
	52029	2,4 - D	ND	5		4.4	ug/L	114	NA	60-120	NA	0-20		LFM	
	52029	2,4 DB	ND	12.1		17.8	ug/L	68	NA	49-134	NA	0-20		LFM	
	52029	2,4,5 - TP (SILVEX)	ND	2.3		2.2	ug/L	105	NA	68-122	NA	0-20		LFM	
	52029	2,4,5 T	ND	2.7		2.2	ug/L	123	NA	62-128	NA	0-20		LFM	
	52029	ACIFLUORFEN	ND	2.5		2.2	ug/L	114	NA	65-125	NA	0-20		LFM	
	52029	BENTAZON	ND	5.1		4.4	ug/L	116	NA	67-121	NA	0-20		LFM	

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NA = Indicates %RPD could not be calculated

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments	
				Spike Result	Spike Result			MS	MSD				Qualifier	Type		
	52029	DALAPON	ND	24.1		29	ug/L	83	NA	53-421	NA	0-20			LFM	
	52029	DICAMBA	4.4	6.4		2.2	ug/L	91	NA	66-126	NA	0-20			LFM	
	52029	DICHLORPROP	ND	6.8		6.7	ug/L	101	NA	63-123	NA	0-20			LFM	
	52029	DINOSEB	ND	3.3		4.4	ug/L	75	NA	73-127	NA	0-20			LFM	
	52029	MCPA	ND	2.2		2.2	ug/L	100	NA	49-121	NA	0-20			LFM	
	52029	MCPP	ND	2		2.2	ug/L	91	NA	48-126	NA	0-20			LFM	
	52029	PENTACHLOROPHENOL	ND	1.8		2.2	ug/L	82	NA	69-123	NA	0-20			LFM	
	52029	PICLORAM	ND	3.4		2.2	ug/L	155	NA	48-114	NA	0-20	M1		LFM	
	52029	TOTAL DCPA	ND	2.6		2.2	ug/L	118	NA	48-168	NA	0-20			LFM	
	52029	TRICLOPYR	ND	2.3		2.2	ug/L	105	NA	70-130	NA	0-20			LFM	
8260W_151106																
	52024	1,1 - DICHLOROETHANE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20			LFM	
	52024	1,1 - DICHLOROETHYLENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM	
	52024	1,1,1 - TRICHLOROETHANE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20			LFM	
	52024	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20			LFM	
	52024	1,1,2 - TRICHLOROETHANE	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20			LFM	
	52024	1,1,2,2 - TETRACHLOROETHANE	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20			LFM	
	52024	1,2 - DICHLOROBENZENE (ortho)	ND	3.9	3.6	4	ug/L	98	90	70-130	8.0	0-20			LFM	
	52024	1,2 - DICHLOROETHANE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20			LFM	
	52024	1,2 - DICHLOROPROPANE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM	
	52024	1,2,3 - TRICHLOROPROPANE	ND	4.5	4.2	4	ug/L	113	105	70-130	6.9	0-20			LFM	
	52024	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	5.2	4	ug/L	125	130	70-130	3.9	0-20			LFM	
	52024	1,4 - DICHLOROBENZENE (para)	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20			LFM	
	52024	2-BUTANONE (MEK)	ND				ug/L			70-130	NA	0-20			LFM	
	52024	2-HEXANONE	ND				ug/L			70-130	NA	0-20			LFM	
	52024	4-METHYL-2-PENTANONE	ND				ug/L			70-130	NA	0-20			LFM	
	52024	ACETONE	ND				ug/L			70-130	NA	0-20			LFM	
	52024	BENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20			LFM	
	52024	BROMOCHLOROMETHANE	ND	3.5	3.6	4	ug/L	88	90	70-130	2.8	0-20			LFM	
	52024	BROMODICHLOROMETHANE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0	0-20			LFM	
	52024	BROMOFORM	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20			LFM	
	52024	BROMOMETHANE	ND	3.9	4.9	4	ug/L	98	123	70-130	22.7	0-20			LFM	
	52024	CARBON DISULFIDE	ND				ug/L			70-130	NA	0-20			LFM	
	52024	CARBON TETRACHLORIDE	ND	4.0	5.1	4	ug/L	100	128	70-130	24.2	0-20			LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike	Spike	Spike		MS	MSD				Qualifier	Type	
				Result	Result	Conc									
	52024	CHLOROBENZENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM	
	52024	CHLOROETHANE	ND	4.8	3.0	4	ug/L	120	75	70-130	46.2	0-20		LFM	
	52024	CHLOROFORM	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20		LFM	
	52024	CHLOROMETHANE	ND	4.9	4.2	4	ug/L	123	105	70-130	15.4	0-20		LFM	
	52024	CIS - 1,2 - DICHLOROETHENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM	
	52024	CIS - 1,3 - DICHLOROPROPENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM	
	52024	DIBROMOCHLOROMETHANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6	0-20		LFM	
	52024	DIBROMOMETHANE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20		LFM	
	52024	ETHYLBENZENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM	
	52024	M,P- XYLENE	ND	8.0	7.4	8	ug/L	100	93	70-130	7.8	0-20		LFM	
	52024	METHYL IODIDE	ND				ug/L			70-130	NA	0-20		LFM	
	52024	METHYLENE CHLORIDE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20		LFM	
	52024	O - XYLENE	ND	4.2	3.8	4	ug/L	105	95	70-130	10.0	0-20		LFM	
	52024	STYRENE	ND	4.0	3.7	4	ug/L	100	93	70-130	7.8	0-20		LFM	
	52024	TETRACHLOROETHYLENE	ND	3.5	3.5	4	ug/L	88	88	70-130	0.0	0-20		LFM	
	52024	TOLUENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1	0-20		LFM	
	52024	TRANS - 1,2 - DICHLOROETHENE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM	
	52024	TRANS - 1,3 - DICHLOROPROPENE	ND	3.3	3.7	4	ug/L	83	93	70-130	11.4	0-20		LFM	
	52024	TRANS - 1,4 - DICHLORO-2-BUTENE	ND				ug/L			70-130	NA	0-20		LFM	
	52024	TRICHLOROETHENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM	
	52024	TRICHLOROFLUOROMETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM	
	52024	VINYL ACETATE	ND				ug/L			70-130	NA	0-20		LFM	
	52024	VINYL CHLORIDE	ND	5.5	4.8	4	ug/L	138	120	70-130	13.6	0-20	M1	LFM	
COD_151103															
	51485	CHEMICAL OXYGEN DEMAND	149	203	199	50	mg/L	108	100	70-130	7.7	0-20		LFM	
	52023	CHEMICAL OXYGEN DEMAND	ND	59	56	50	mg/L	118	112	70-130	5.2	0-20		LFM	
	52102	CHEMICAL OXYGEN DEMAND	75	128	126	50	mg/L	106	102	70-130	3.8	0-20		LFM	
I151029A															
	51652	CHLORIDE	3.3	21.6		20	mg/L	92	NA	90-110	NA	0-20		LFM	
	51652	SULFATE	29.9	70.5		40	mg/L	102	NA	90-110	NA	0-20		LFM	
	51838	CHLORIDE	27.2	27.6		2	mg/L	20	NA	90-110	NA	0-20	IS	LFM	
	51838	FLUORIDE	ND	0.92		1	mg/L	92	NA	90-110	NA	0-20		LFM	
	52028	CHLORIDE	38.7	38.9		1	mg/L	20	NA	90-110	NA	0-20	IS	LFM	
	52028	FLUORIDE	ND	1		1	mg/L	100	NA	90-110	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
				Spike Result	Spike Result			MS	MSD						
	52028	SULFATE	15.6	17.2		2	mg/L	80	NA	90-110	NA	0-20	IS	LFM	
	52028	TOTAL NITRATE/NITRITE	0.46	2.42		2	mg/L	98	NA	90-110	NA	0-20		LFM	
SIM_151030															
	52024	1,2 - DIBROMOETHANE (EDB SIM)		0.093	0.099	0.1	ug/L	93	99	70-130	6.3	0-20		LFM	
	52024	ACRYLONITRILE (SIM)		0.072	0.084	0.1	ug/L	72	84	70-130	15.4	0-20		LFM	
	52024	VINYL CHLORIDE (SIM)		0.123	0.127	0.1	ug/L	123	127	70-130	3.2	0-20		LFM	
SIM_151102															
	52186	1,2 - DIBROMOETHANE (EDB SIM)		0.101	0.104	0.1	ug/L	101	104	70-130	2.9	0-20		LFM	
	52186	ACRYLONITRILE (SIM)		0.097	0.104	0.1	ug/L	97	104	70-130	7.0	0-20		LFM	
	52186	VINYL CHLORIDE (SIM)		0.115	0.112	0.1	ug/L	115	112	70-130	2.6	0-20		LFM	
TOC_151030															
	51287	TOTAL ORGANIC CARBON	0.39	4.24		4.00	mg/L	96		70-130	NA	0-20		LFM	
	51334	TOTAL ORGANIC CARBON	ND	3.79		4.00	mg/L	95		70-130	NA	0-20		LFM	
	51613	TOTAL ORGANIC CARBON	0.18	4.04		4.00	mg/L	97		70-130	NA	0-20		LFM	
	51765	TOTAL ORGANIC CARBON	1.46	5.17		4.00	mg/L	93		70-130	NA	0-20		LFM	
	52030	TOTAL ORGANIC CARBON	1.07	4.69		4.00	mg/L	91		70-130	NA	0-20		LFM	

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FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 15-23430

Report Date: 11/13/15

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Matrix bias indicated.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.



ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Willsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Willsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

REPORT TO: SCS ENGINEERS
 ADDRESS: 2405 140TH AVE. NE STE 107
 CITY: BELLEVUE STATE: WA ZIP: 98005
 ATN: ~~EMERITZ~~ RANERREZ Dawn Vlacharatti
 PHONE: 425-746-4600 FAX: 425-746-6747
 EMAIL: ~~emeritz@scsengineers.com~~
 PROJECT NAME: COUPEVILLE LANDFILL

BILL TO: ISLAND COUNTY SOLID WASTE
 ADDRESS: PO Box 5000
 CITY: Coupeville STATE: WA ZIP: 98239
 PHONE: 360-678-7338 FAX:
 P.O.#:
 VISA M/C A/E Expire: /
 CARD#

FOR LAB USE ONLY
 REF#
 CHECK REGULATORY PROGRAM
 SAFE DRINKING WATER ACT
 CLEAN WATER ACT
 RCRA / CERCLA
 OTHER

dvrnchiarratti@scsengineers.com

INSTRUCTIONS:

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
 STANDARD
 HALF-TIME (50% SURCHARGE)
 QUICKEST (100% SURCHARGE) PHONE CALL REQ. EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

15-23430
 52023 - 52030

SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1 1015-16	Coupeville Landfill	G	GW	10/28/15	1013	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2 1015-17	Coupeville Landfill	G	GW		1122	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	17	pas /asd table here
3 1015-18	Coupeville Landfill	G	GW		1337	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	* Rudge
4 1015-19	Coupeville Landfill	G	GW		1443	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	Please only run
5 1015-20	Coupeville Landfill	G	GW		1550	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	1 trip blank analysis
6 1015-21	Coupeville Landfill	G	GW		1630	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13	
7 1015-22	Coupeville Landfill	G	GW		1723	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
8 1015-23	Coupeville Landfill	G	GW		1830	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
9 1015-Trip blank	Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
10 1015-	Coupeville Landfill	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	98	

▶ TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER * DW-DRINKING WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL
 Sgraber @ SCSengineers.com

RELINQUISHED BY: Sam Graber DATE: 10/29/15 TIME: 800 RECEIVED BY: [Signature] DATE: 10/29/15 TIME: 1610

CUSTOMY SEALS INTACT EVIDENCE OF COOLING SAMPLES RECEIVED INTACT CHAIN OF CUSTODY & LABELS AGREE

WATER SATISFACTORY YES NO N/A

1.8°C



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

November 13, 2015

Page 1 of 1

Dan Venchiarutti
SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

RE: 15-23522 - Coupeville Landfill

Dear Dan Venchiarutti,

Your project: Coupeville Landfill, was received on Friday October 30, 2015.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report



Burlington, WA *Corporate Laboratory (a)*
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400
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 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802
 Corvallis, OR *Microbiology/Chemistry (d)*
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4946
 Bend, OR *Microbiology (e)*
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Data Report

Client Name: SCS Engineers
 2405 140th Avenue NE Ste 107
 Bellevue, WA 98005

Reference Number: **15-23522**
 Project: Coupeville Landfill

Report Date: 11/13/15

Date Received: 10/30/15

Approved by: bj,mvp

Authorized by:

Lawrence J Henderson, PhD
 Director of Laboratories, Vice President

Sample Description: 1015-24 - Coupeville Landfill Sample Date: 10/29/15 9:57 am
 Lab Number: 52185 Sample Comment: Collected By: Sam Graber

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	27.8	1.0	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
14808-79-8	SULFATE	12.7	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
16984-48-8	FLUORIDE	0.15	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-14506	ALKALINITY	249	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	249	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.06	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	334	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	11	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	3.37	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	37.4	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.46	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	26.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	9.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	41.3	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.014	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.034	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.075	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Data Report

7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109
7440-66-6	ZINC	0.004	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Data Report

Sample Description: 1015-25 - Coupeville Landfill									Sample Date: 10/29/15 11:41 am			
Lab Number: 52186			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	57.6	1.0	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
14808-79-8	SULFATE	38.5	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
16984-48-8	FLUORIDE	0.14	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	1.24	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-14506	ALKALINITY	330	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	330	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	498	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.47	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	78.0	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	49.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.7	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	32.7	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.005	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.024	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.009	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	ND	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.001	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.002	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.005	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.007	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-26 - Coupeville Landfill									Sample Date: 10/29/15 12:42 pm			
Lab Number: 52187			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	61.9	1.0	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
14808-79-8	SULFATE	26.8	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
16984-48-8	FLUORIDE	0.14	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-14506	ALKALINITY	400	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	400	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.03	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	550	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.74	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	76.8	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.71	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	65.0	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	7.9	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	37.2	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.011	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.048	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.215	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.005	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.004	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

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 D.F. - Dilution Factor

Data Report

Sample Description: 1015-27 - Coupeville Landfill									Sample Date: 10/29/15 2:51 pm			
Lab Number: 52188			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	21.8	1.0	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
14808-79-8	SULFATE	64.9	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	8.32	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-14506	ALKALINITY	698	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	698	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	832	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.33	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	179.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	7.2	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	71.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	33.9	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.001	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.060	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	0.001	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.396	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.006	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-28 - Coupeville Landfill									Sample Date: 10/29/15 3:58 pm			
Lab Number: 52189			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	24.4	1.0	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
14808-79-8	SULFATE	57.5	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
16984-48-8	FLUORIDE	0.17	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	3.28	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-14506	ALKALINITY	1230	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	1230	25		mg/L	5.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	1106	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.69	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	230.1	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	107.3	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	8.8	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	40.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.052	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.002	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.068	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.009	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.007	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.003	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-29 - Coupeville Landfill									Sample Date: 10/29/15 5:00 pm			
Lab Number: 52190			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	51.9	1.0	0.0211	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
14808-79-8	SULFATE	41.7	0.2	0.0174	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
16984-48-8	FLUORIDE	ND	0.1	0.0054	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	1.44	0.1	0.0206	mg/L	1.0	300.0	a	10/30/15	MMH	I151030A	
E-14506	ALKALINITY	343	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	343	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	474	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.53	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	83.6	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	46.5	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	5.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	32.5	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.003	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.022	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.001	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.047	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.003	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.002	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.130	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-30 - Coupeville Landfill									Sample Date: 10/29/15 6:13 pm			
Lab Number: 52191			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	42.4	1.0	0.0211	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
16984-48-8	FLUORIDE	0.11	0.1	0.0054	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
14808-79-8	SULFATE	53.5	0.2	0.0174	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	3.45	0.1	0.0206	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
E-14506	ALKALINITY	380	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	380	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	552	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.63	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	93.2	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	ND	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	50.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	4.2	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	34.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.002	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.027	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	0.002	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	0.001	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.001	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	0.001	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.003	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	ND	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-31 - Coupeville Landfill									Sample Date: 10/30/15 1:30 pm			
Lab Number: 52192			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	20.8	1.0	0.0211	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
14808-79-8	SULFATE	21.2	0.2	0.0174	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
E-14506	ALKALINITY	319	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	319	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	0.04	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	398	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	0.75	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	60.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.17	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	40.6	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.1	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	25.8	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.023	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.146	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	ND	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	ND	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.067	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor

Data Report

Sample Description: 1015-32 - Coupeville Landfill									Sample Date: 10/30/15 2:10 pm			
Lab Number: 52193			Sample Comment:						Collected By: Sam Graber			
CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
16887-00-6	CHLORIDE	50.7	1.0	0.0211	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
16984-48-8	FLUORIDE	0.13	0.1	0.0054	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
14808-79-8	SULFATE	41.3	0.2	0.0174	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
E-10128	TOTAL NITRATE/NITRITE	ND	0.1	0.0206	mg/L	1.0	300.0	a	10/31/01	MMH	I151030A	
E-14506	ALKALINITY	357	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
NA	BICARBONATE	357	5.0		mg/L	1.0	310.2	a	11/3/15	ANP	310.2_151103	
7664-41-7	AMMONIA-N	ND	0.01	0.0009	mg/L	1.0	350.1	a	11/5/15	ANP	350.1_151105	
E-10173	TOTAL DISSOLVED SOLIDS (TDS)	500	20		mg/L	2.0	SM2540 C	a	11/4/15	MMH	TDS_151104	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	5.04	mg/L	1.0	SM5220 D	a	11/5/15	ANP	COD_151105	
E-10195	TOTAL ORGANIC CARBON	1.50	0.15	0.05	mg/L	1.0	SM5310 B	a	11/6/15	BJ	TOC_151106	
7440-70-2	CALCIUM	81.5	0.500	0.009	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-89-6	IRON	0.50	0.050	0.0012	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7439-95-4	MAGNESIUM	49.7	0.500	0.001	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-09-7	POTASSIUM	6.0	0.500	0.1	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-23-5	SODIUM	33.4	1.0	0.05	mg/L	1.0	6010B/3010A	a	11/6/15	BJ	6010B_151106A	
7440-36-0	ANTIMONY	ND	0.001	7.30E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-38-2	ARSENIC	0.006	0.0005	2.40E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-39-3	BARIUM	0.033	0.001	1.55E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-41-7	BERYLLIUM	ND	0.0005	3.79E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-43-9	CADMIUM	ND	0.00025	4.93E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-47-3	CHROMIUM	ND	0.001	3.52E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-48-4	COBALT	ND	0.001	5.63E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-50-8	COPPER	ND	0.001	2.32E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-92-1	LEAD	ND	0.0005	1.27E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7439-96-5	MANGANESE	0.115	0.001	9.38E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-02-0	NICKEL	0.002	0.0005	1.29E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7782-49-2	SELENIUM	ND	0.001	3.12E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-22-4	SILVER	ND	0.0002	5.50E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-28-0	THALLIUM	ND	0.00036	6.08E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-62-2	VANADIUM	0.001	0.001	8.47E-06	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	
7440-66-6	ZINC	0.101	0.0025	4.25E-05	mg/L	1.0	6020A/3010A	a	11/9/15	MVP	6020_151109	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor



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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52193
Field ID: 1015-32
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/30/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52193
Field ID: 1015-32
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/30/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52192
Field ID: 1015-31
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/30/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52192
Field ID: 1015-31
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/30/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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ND - indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52191
Field ID: 1015-30
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52191
Field ID: 1015-30
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52190
Field ID: 1015-29
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52190
Field ID: 1015-29
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52189
Field ID: 1015-28
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/6/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/6/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151106
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	0.4		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	0.9		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	3.0		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52189
Field ID: 1015-28
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-01-4	Volatile Organic Compounds VINYL CHLORIDE (SIM)	19.1		ug/L	0.02	0.01	0.01	1.00	a	Full Scan; Estimated SIM: 10.4 ug/L
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52188
Field ID: 1015-27
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	2.2		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52188
Field ID: 1015-27
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.325		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52187
Field ID: 1015-26
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	6	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52187
Field ID: 1015-26
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52186
Field ID: 1015-25
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9150 SW Pioneer Ct Ste W	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52186
Field ID: 1015-25
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	ND		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

Notes:

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 ND - indicates the compound was not detected above the PQL or MDL.
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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 2

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52185
Field ID: 1015-24
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/9/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/9/15
Analyst: HY
Analytical Method: 8260B
Batch: 8260W_151109
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
75-34-3	1,1 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/L	0.4	0.4	0.13	1.00	a	
71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.16	1.00	a	
630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	0.2	0.2	0.15	1.00	a	
95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	0.4	0.4	0.08	1.00	a	
107-06-2	1,2 - DICHLOROETHANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
78-87-5	1,2 - DICHLOROPROPANE	ND		ug/L	0.4	0.4	0.11	1.00	a	
96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	0.4	0.4	0.17	1.00	a	
106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/L	0.4	0.4	0.06	1.00	a	
78-93-3	2-BUTANONE (MEK)	ND		ug/L	3	3	2.63	1.00	a	
591-78-6	2-HEXANONE	ND		ug/L	4	4	3.76	1.00	a	
108-10-1	4-METHYL-2-PENTANONE	ND		ug/L	2	2	0.62	1.00	a	
67-64-1	ACETONE	ND		ug/L	2.0	2.0	0.74	1.00	a	
71-43-2	BENZENE	ND		ug/L	0.4	0.4	0.16	1.00	a	
74-97-5	BROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-27-4	BROMODICHLOROMETHANE	ND		ug/L	0.3	0.3	0.13	1.00	a	
75-25-2	BROMOFORM	ND		ug/L	0.4	0.4	0.2	1.00	a	
74-83-9	BROMOMETHANE	ND		ug/L	0.4	0.4	0.3	1.00	a	
75-15-0	CARBON DISULFIDE	ND		ug/L	0.4	0.4	0.15	1.00	a	
56-23-5	CARBON TETRACHLORIDE	ND		ug/L	0.3	0.3	0.14	1.00	a	
108-90-7	CHLOROBENZENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
75-00-3	CHLOROETHANE	ND		ug/L	0.4	0.4	0.29	1.00	a	
67-66-3	CHLOROFORM	ND		ug/L	0.4	0.4	0.09	1.00	a	
74-87-3	CHLOROMETHANE	ND		ug/L	0.4	0.4	0.1	1.00	a	

Notes:

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CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
156-59-2	CIS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-01-1	CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.06	1.00	a	
124-48-1	DIBROMOCHLOROMETHANE	ND		ug/L	0.4	0.4	0.13	1.00	a	
74-95-3	DIBROMOMETHANE	ND		ug/L	0.4	0.4	0.15	1.00	a	
100-41-4	ETHYLBENZENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
1330-20-7	M,P- XYLENE	ND		ug/L	0.4	0.4	0.21	1.00	a	
74-88-4	METHYL IODIDE	ND		ug/L	3	5	2.29	1.00	a	
75-09-2	METHYLENE CHLORIDE	ND		ug/L	0.4	0.4	0.28	1.00	a	
95-47-6	O - XYLENE	ND		ug/L	0.4	0.4	0.1	1.00	a	
100-42-5	STYRENE	ND		ug/L	0.4	0.4	0.07	1.00	a	SIM Analysis
127-18-4	TETRACHLOROETHYLENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
108-88-3	TOLUENE	ND		ug/L	0.4	0.4	0.12	1.00	a	
156-60-5	TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	0.4	0.4	0.14	1.00	a	
10061-02-1	TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	0.4	0.4	0.11	1.00	a	
110-57-6	TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	0.4	5	0.4	1.00	a	
79-01-6	TRICHLOROETHENE	ND		ug/L	0.4	0.4	0.09	1.00	a	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/L	0.4	0.4	0.18	1.00	a	
108-05-4	VINYL ACETATE	ND		ug/L	2	2	1.39	1.00	a	
75-01-4	VINYL CHLORIDE	ND		ug/L	0.4	0.4	0.13	1.00	a	

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Corvallis, OR	Microbiology (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946

WSDOE Lab C567

DATA REPORT

Page 1 of 1

Client Name: SCS Engineers
2405 140th Avenue NE Ste 107
Bellevue, WA 98005

Reference Number: **15-23522**
Project: Coupeville Landfill

Lab Number: 52185
Field ID: 1015-24
Sample Description: Coupeville Landfill
Matrix: Water
Sample Date: 10/29/15
Extraction Date: 11/2/15
Extraction Method: 5030B

Report Date: 11/13/15
Date Analyzed: 11/2/15
Analyst: RJK
Analytical Method: 8260SIM
Batch: SIM_151102
Approved By: hy,pdm

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	Lab	COMMENT
	Volatile Organic Compounds									
75-01-4	VINYL CHLORIDE (SIM)	0.019		ug/L	0.02	0.01	0.01	1.00	a	
107-13-1	ACRYLONITRILE (SIM)	ND		ug/L	0.07	0.05	0.05	1.00	a	
106-93-4	1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	0.01	0.01	0.006	1.00	a	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
350.1_151105	0 AMMONIA-N	2.58	2.50	mg/L	350.1	103	90-110	CAL	
6010B_151106A	2 CALCIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 IRON	1.05	1	mg/L	6010B	105	90-110	CAL	
	2 MAGNESIUM	10.9	11	mg/L	6010B	99	90-110	CAL	
	2 POTASSIUM	9.1	10	mg/L	6010B	91	90-110	CAL	
	2 SODIUM	11	11	mg/L	6010B	100	90-110	CAL	
6020_151109	0 ANTIMONY	0.00102	0.001	mg/L	6020A	102	80-120	CAL	
	0 ARSENIC	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 BARIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 BERYLLIUM	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 CADMIUM	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 CHROMIUM	0.00092	0.001	mg/L	6020A	92	80-120	CAL	
	0 COBALT	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 COPPER	0.001	0.001	mg/L	6020A	100	80-120	CAL	
	0 LEAD	0.00097	0.001	mg/L	6020A	97	80-120	CAL	
	0 MANGANESE	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 NICKEL	0.00099	0.001	mg/L	6020A	99	80-120	CAL	
	0 SELENIUM	0.00107	0.001	mg/L	6020A	107	80-120	CAL	
	0 SILVER	0.00095	0.001	mg/L	6020A	95	80-120	CAL	
	0 THALLIUM	0.00098	0.001	mg/L	6020A	98	80-120	CAL	
	0 VANADIUM	0.00096	0.001	mg/L	6020A	96	80-120	CAL	
	0 ZINC	0.001	0.001	mg/L	6020A	100	80-120	CAL	
I151030A	0 CHLORIDE	1	1	mg/L	300.0	100	90-110	CAL	
	0 FLUORIDE	0.94	1	mg/L	300.0	94	90-110	CAL	
	0 SULFATE	2	2	mg/L	300.0	100	90-110	CAL	
	0 TOTAL NITRATE/NITRITE	2.12	2	mg/L	300.0	106	90-110	CAL	
TOC_151106	0 TOTAL ORGANIC CARBON	2.40	2.50	mg/L	SM5310 B	96	90-110	CAL	
	1 TOTAL ORGANIC CARBON	101.2	100	mg/L	SM5310 B	101	90-110	CAL	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_151106	2 TOTAL ORGANIC CARBON	4.83	5.00	mg/L	SM5310 B	97	90-110	CAL		
	3 TOTAL ORGANIC CARBON	0.46	0.50	mg/L	SM5310 B	92	90-110	CAL		
	4 TOTAL ORGANIC CARBON	0.13	0.15	mg/L	SM5310 B	87	90-110	CAL		MRL

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
6010B_151106A	0 CALCIUM	28	26	mg/L	6010B	108	85-115	LFB	
	0 IRON	1.08	1	mg/L	6010B	108	85-115	LFB	
	0 MAGNESIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
	0 POTASSIUM	33	35	mg/L	6010B	94	85-115	LFB	
	0 SODIUM	27.6	26	mg/L	6010B	106	85-115	LFB	
6020_151109	0 ANTIMONY	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 ARSENIC	0.027	0.025	mg/L	6020A	108	80-120	LFB	
	0 BARIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 BERYLLIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 CADMIUM	0.024	0.025	mg/L	6020A	96	80-120	LFB	
	0 CHROMIUM	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 COBALT	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 COPPER	0.026	0.025	mg/L	6020A	104	80-120	LFB	
	0 LEAD	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 MANGANESE	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 NICKEL	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 SELENIUM	0.022	0.025	mg/L	6020A	88	80-120	LFB	
	0 SILVER	0.012	0.0125	mg/L	6020A	96	80-120	LFB	
	0 THALLIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
	0 VANADIUM	0.025	0.025	mg/L	6020A	100	80-120	LFB	
0 ZINC	0.023	0.025	mg/L	6020A	92	80-120	LFB		
8260W_151106	0 1,1 - DICHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1 - DICHLOROETHYLENE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,1,1 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 1,1,2 - TRICHLOROETHANE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.3	4	ug/L	8260B	108	80-120	LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 1,2 - DICHLOROETHANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 1,2 - DICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 1,2,3 - TRICHLOROPROPANE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	4.6	4	ug/L	8260B	115	80-120	LFB	
	0 1,4 - DICHLOROENZENE (para)	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 2-BUTANONE (MEK)	12	10	ug/L	8260B	120	80-120	LFB	
	0 2-HEXANONE	11.9	10	ug/L	8260B	119	80-120	LFB	
	0 4-METHYL-2-PENTANONE	11.8	10	ug/L	8260B	118	80-120	LFB	
	0 ACETONE	12.9	10	ug/L	8260B	129	80-120	HR LFB	
	0 BENZENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 BROMOCHLOROMETHANE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 BROMODICHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 BROMOFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 BROMOMETHANE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 CARBON DISULFIDE	11.4	10	ug/L	8260B	114	80-120	LFB	
	0 CARBON TETRACHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 CHLOROENZENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROETHANE	3.5	4	ug/L	8260B	88	80-120	LFB	
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CHLOROMETHANE	4.8	4	ug/L	8260B	120	80-120	LFB	
	0 CIS - 1,2 - DICHLOROETHENE	4.1	4	ug/L	8260B	103	80-120	LFB	
	0 CIS - 1,3 - DICHLOROPROPENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 DIBROMOCHLOROMETHANE	3.7	4	ug/L	8260B	93	80-120	LFB	
	0 DIBROMOMETHANE	4.5	4	ug/L	8260B	113	80-120	LFB	
	0 ETHYLBENZENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 M,P- XYLENE	7.8	8	ug/L	8260B	98	80-120	LFB	
	0 METHYL IODIDE	11.9	10	ug/L	8260B	119	80-120	LFB	
	0 METHYLENE CHLORIDE	4.2	4	ug/L	8260B	105	80-120	LFB	
	0 O - XYLENE	4.0	4	ug/L	8260B	100	80-120	LFB	
	0 STYRENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TETRACHLOROETHYLENE	3.6	4	ug/L	8260B	90	80-120	LFB	
	0 TOLUENE	3.9	4	ug/L	8260B	98	80-120	LFB	
	0 TRANS - 1,2 - DICHLOROETHENE	3.8	4	ug/L	8260B	95	80-120	LFB	
	0 TRANS - 1,3 - DICHLOROPROPENE	3.9	4	ug/L	8260B	98	80-120	LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_151106	0 TRANS - 1,4 - DICHLORO-2-BUTENE	11.4	10	ug/L	8260B	114	80-120		LFB	
	0 TRICHLOROETHENE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 TRICHLOROFUOROMETHANE	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 VINYL ACETATE	11.3	10	ug/L	8260B	113	80-120		LFB	
	0 VINYL CHLORIDE	4.6	4	ug/L	8260B	115	80-120		LFB	
8260W_151109	0 1,1 - DICHLOROETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 1,1 - DICHLOROETHYLENE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 1,1,1 - TRICHLOROETHANE	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,1,1,2 - TETRACHLOROETHANE	4.4	4	ug/L	8260B	110	80-120		LFB	
	0 1,1,2 - TRICHLOROETHANE	4.3	4	ug/L	8260B	108	80-120		LFB	
	0 1,1,2,2 - TETRACHLOROETHANE	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 1,2 - DICHLOROBENZENE (ortho)	3.9	4	ug/L	8260B	98	80-120		LFB	
	0 1,2 - DICHLOROETHANE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 1,2 - DICHLOROPROPANE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 1,2,3 - TRICHLOROPROPANE	4.5	4	ug/L	8260B	113	80-120		LFB	
	0 1,2-DIBROMO-3-CHLOROPROPANE	4.7	4	ug/L	8260B	118	80-120		LFB	
	0 1,4 - DICHLOROBENZENE (para)	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 2-BUTANONE (MEK)	12.0	10	ug/L	8260B	120	80-120		LFB	
	0 2-HEXANONE	14.1	10	ug/L	8260B	141	80-120	HR	LFB	
	0 4-METHYL-2-PENTANONE	11.1	10	ug/L	8260B	111	80-120		LFB	
	0 ACETONE	11.5	10	ug/L	8260B	115	80-120		LFB	
	0 BENZENE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 BROMOCHLOROMETHANE	4.1	4	ug/L	8260B	103	80-120		LFB	
	0 BROMODICHLOROMETHANE	4.0	4	ug/L	8260B	100	80-120		LFB	
	0 BROMOFORM	4.6	4	ug/L	8260B	115	80-120		LFB	
	0 BROMOMETHANE	3.9	4	ug/L	8260B	98	80-120	LE	LFB	
	0 CARBON DISULFIDE	11.0	10	ug/L	8260B	110	80-120		LFB	
	0 CARBON TETRACHLORIDE	6.2	4	ug/L	8260B	155	80-120	HR	LFB	
	0 CHLOROBENZENE	4.2	4	ug/L	8260B	105	80-120		LFB	
	0 CHLOROETHANE	4.8	4	ug/L	8260B	120	80-120		LFB	
	0 CHLOROFORM	4.1	4	ug/L	8260B	103	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True		Method	%	Recovery	Limits*	QC	
			Value	Units					Qualifier	Type
8260W_151109	0 CHLOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB		
	0 CIS - 1,2 - DICHLOROETHENE	4.3	4	ug/L	8260B	108	80-120	LFB		
	0 CIS - 1,3 - DICHLOROPROPENE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 DIBROMOCHLOROMETHANE	3.9	4	ug/L	8260B	98	80-120	LFB		
	0 DIBROMOMETHANE	4.4	4	ug/L	8260B	110	80-120	LFB		
	0 ETHYLBENZENE	4.6	4	ug/L	8260B	115	80-120	LFB		
	0 M,P- XYLENE	8.6	8	ug/L	8260B	108	80-120	LFB		
	0 METHYL IODIDE	9.8	10	ug/L	8260B	98	80-120	LFB		
	0 METHYLENE CHLORIDE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 O - XYLENE	4.3	4	ug/L	8260B	108	80-120	LFB		
	0 STYRENE	4.2	4	ug/L	8260B	105	80-120	LFB		
	0 TETRACHLOROETHYLENE	4.0	4	ug/L	8260B	100	80-120	LFB		
	0 TOLUENE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 TRANS - 1,2 - DICHLOROETHENE	4.2	4	ug/L	8260B	105	80-120	LFB		
	0 TRANS - 1,3 - DICHLOROPROPENE	4.1	4	ug/L	8260B	103	80-120	LFB		
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	10.6	10	ug/L	8260B	106	80-120	LFB		
	0 TRICHLOROETHENE	4.1	4	ug/L	8260B	103	80-120	LFB		
0 TRICHLOROFLUOROMETHANE	4.2	4	ug/L	8260B	105	80-120	LFB			
0 VINYL ACETATE	11.0	10	ug/L	8260B	110	80-120	LFB			
0 VINYL CHLORIDE	4.6	4	ug/L	8260B	115	80-120	LFB			
COD_151105	0 CHEMICAL OXYGEN DEMAND	49	50	mg/L	SM5220 D	98	90-110	LFB		
SIM_151102	0 1,2 - DIBROMOETHANE (EDB SIM)	0.096	0.1	ug/L	8260SIM	96	70-130	LFB	SIMS ANALYSIS	
	0 ACRYLONITRILE (SIM)	0.081	0.1	ug/L	8260SIM	81	70-130	LFB	SIMS ANALYSIS	
	0 VINYL CHLORIDE (SIM)	0.097	0.1	ug/L	8260SIM	97	70-130	LFB	SIMS ANALYSIS	
TOC_151106	0 TOTAL ORGANIC CARBON	0.93	1.00	mg/L	SM5310 B	93	90-110	LFB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151103	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1	LRB	
350.1_151105	0 AMMONIA-N	ND		mg/L	350.1		0-0	LRB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0	LRB	
	0 IRON	ND		mg/L	6010B		0-0	LRB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0	LRB	
	0 POTASSIUM	ND		mg/L	6010B		0-0	LRB	
	0 SODIUM	ND		mg/L	6010B		0-0	LRB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0	LRB	
	0 ARSENIC	ND		mg/L	6020A		0-0	LRB	
	0 BARIUM	ND		mg/L	6020A		0-0	LRB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0	LRB	
	0 CADMIUM	ND		mg/L	6020A		0-0	LRB	
	0 CHROMIUM	ND		mg/L	6020A		0-0	LRB	
	0 COBALT	ND		mg/L	6020A		0-0	LRB	
	0 COPPER	ND		mg/L	6020A		0-0	LRB	
	0 LEAD	ND		mg/L	6020A		0-0	LRB	
	0 MANGANESE	ND		mg/L	6020A		0-0	LRB	
	0 NICKEL	ND		mg/L	6020A		0-0	LRB	
	0 SELENIUM	ND		mg/L	6020A		0-0	LRB	
	0 SILVER	ND		mg/L	6020A		0-0	LRB	
	0 THALLIUM	ND		mg/L	6020A		0-0	LRB	
0 VANADIUM	ND		mg/L	6020A		0-0	LRB		
0 ZINC	ND		mg/L	6020A		0-0	LRB		
1151030A	0 CHLORIDE	ND		mg/L	300.0		0-0	LRB	
	0 FLUORIDE	ND		mg/L	300.0		0-0	LRB	
	0 SULFATE	ND		mg/L	300.0		0-0	LRB	
	0 TOTAL NITRATE/NITRITE	ND		mg/L	300.0		0-0	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
TOC_151106	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0		LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
310.2_151103	0 ALKALINITY	ND		mg CaCO3/l	310.2		0-1		MB	
350.1_151105	0 AMMONIA-N	ND		mg/L	350.1		0-0		MB	
6010B_151106A	0 CALCIUM	ND		mg/L	6010B		0-0		MB	
	0 IRON	ND		mg/L	6010B		0-0		MB	
	0 MAGNESIUM	ND		mg/L	6010B		0-0		MB	
	0 POTASSIUM	ND		mg/L	6010B		0-0		MB	
	0 SODIUM	ND		mg/L	6010B		0-0		MB	
6020_151109	0 ANTIMONY	ND		mg/L	6020A		0-0		MB	
	0 ARSENIC	ND		mg/L	6020A		0-0		MB	
	0 BARIUM	ND		mg/L	6020A		0-0		MB	
	0 BERYLLIUM	ND		mg/L	6020A		0-0		MB	
	0 CADMIUM	ND		mg/L	6020A		0-0		MB	
	0 CHROMIUM	ND		mg/L	6020A		0-0		MB	
	0 COBALT	ND		mg/L	6020A		0-0		MB	
	0 COPPER	ND		mg/L	6020A		0-0		MB	
	0 LEAD	ND		mg/L	6020A		0-0		MB	
	0 MANGANESE	ND		mg/L	6020A		0-0		MB	
	0 NICKEL	ND		mg/L	6020A		0-0		MB	
	0 SELENIUM	ND		mg/L	6020A		0-0		MB	
	0 SILVER	ND		mg/L	6020A		0-0		MB	
	0 THALLIUM	ND		mg/L	6020A		0-0		MB	
0 VANADIUM	ND		mg/L	6020A		0-0		MB		
0 ZINC	ND		mg/L	6020A		0-0		MB		
8260W_151106	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B		0-0		MB	TB 15-23314

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23314

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151106	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23314
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23314
8260W_151109	0 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
0 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23522	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151109	0 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 CHLORO BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 TRICHLOROFUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	0 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23522
	1 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151109	1, 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1, 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1, 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1, 1,4 - DICHLOROENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CHLOROENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 DIBROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 DIBROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 ETHYLBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 M,P- XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 METHYL IODIDE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 METHYLENE CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 O - XYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 STYRENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 TETRACHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 TOLUENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23525

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
8260W_151109	1 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 TRICHLOROETHENE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 VINYL ACETATE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	1 VINYL CHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23525
	2 1,1 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,1 - DICHLOROETHYLENE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,1,1 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,1,1,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,1,2 - TRICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,1,2,2 - TETRACHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,2 - DICHLOROBENZENE (ortho)	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,2 - DICHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,2 - DICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,2,3 - TRICHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 1,4 - DICHLOROBENZENE (para)	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 2-BUTANONE (MEK)	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 2-HEXANONE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 4-METHYL-2-PENTANONE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 ACETONE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 BENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 BROMOCHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 BROMODICHLOROMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 BROMOFORM	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 BROMOMETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 CARBON DISULFIDE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 CARBON TETRACHLORIDE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 CHLOROBENZENE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 CHLOROETHANE	ND		ug/L	8260B	0-0		MB	TB 15-23871
	2 CHLOROFORM	ND		ug/L	8260B	0-0		MB	TB 15-23871

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
8260W_151109	2 CHLOROMETHANE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 CIS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 CIS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 DIBROMOCHLOROMETHANE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 DIBROMOMETHANE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 ETHYLBENZENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 M,P- XYLENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 METHYL IODIDE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 METHYLENE CHLORIDE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 O - XYLENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 STYRENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TETRACHLOROETHYLENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TOLUENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TRANS - 1,2 - DICHLOROETHENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TRANS - 1,3 - DICHLOROPROPENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TRANS - 1,4 - DICHLORO-2-BUTENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TRICHLOROETHENE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 TRICHLOROFLUOROMETHANE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 VINYL ACETATE	ND		ug/L	8260B		0-0	MB		TB 15-23871
	2 VINYL CHLORIDE	ND		ug/L	8260B		0-0	MB		TB 15-23871
COD_151105	0 CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		0-3	MB		
SIM_151102	0 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23430
	0 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23430
	0 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23430
	1 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23522
	1 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23522
	1 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23522
	2 1,2 - DIBROMOETHANE (EDB SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23525
	2 ACRYLONITRILE (SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23525
2 VINYL CHLORIDE (SIM)	ND		ug/L	8260SIM		0-0	MB		TB 15-23525	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC	Comment
TDS_151104	0 TOTAL DISSOLVED SOLIDS (TDS)	ND		mg/L	SM2540 C		0-3			MB
TOC_151106	0 TOTAL ORGANIC CARBON	ND		mg/L	SM5310 B		0-0			MB

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
310.2_151103	0 ALKALINITY	99.7	100	mg CaCO3/l	310.2	100	85-115	QCS	
350.1_151105	0 AMMONIA-N	2.89	2.85	mg/L	350.1	101	85-115	QCS	
6010B_151106A	0 CALCIUM	2.01	2	mg/L	6010B	101	90-110	QCS	
	0 IRON	2.09	2	mg/L	6010B	105	90-110	QCS	
	0 MAGNESIUM	2	2	mg/L	6010B	100	90-110	QCS	
	0 SODIUM	2.09	2	mg/L	6010B	105	90-110	QCS	
	1 POTASSIUM	19	20	mg/L	6010B	95	90-110	QCS	
6020_151109	0 ANTIMONY	0.044	0.040	mg/L	6020A	110	90-110	QCS	
	0 ARSENIC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 BARIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 BERYLLIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CADMIUM	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 CHROMIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COBALT	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 COPPER	0.041	0.040	mg/L	6020A	103	90-110	QCS	
	0 LEAD	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 MANGANESE	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 NICKEL	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SELENIUM	0.039	0.040	mg/L	6020A	98	90-110	QCS	
	0 SILVER	0.019	0.020	mg/L	6020A	95	90-110	QCS	
	0 THALLIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 VANADIUM	0.040	0.040	mg/L	6020A	100	90-110	QCS	
	0 ZINC	0.041	0.040	mg/L	6020A	103	90-110	QCS	
COD_151105	0 CHEMICAL OXYGEN DEMAND	153	162	mg/L	SM5220 D	94	90-110	QCS	
I151030A	0 CHLORIDE	5.8	6	mg/L	300.0	97	90-110	QCS	
	0 FLUORIDE	3.66	4	mg/L	300.0	92	90-110	QCS	
	0 SULFATE	30.2	30	mg/L	300.0	101	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: **15-23522**

Report Date: 11/13/15

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier Type	QC Comment
I151030A	0 TOTAL NITRATE/NITRITE	11.53	12	mg/L	300.0	96	90-110	QCS	
TDS_151104	0 TOTAL DISSOLVED SOLIDS (TDS)	502	500	mg/L	SM2540 C	100	80-120	QCS	
TOC_151106	0 TOTAL ORGANIC CARBON	4.92	5.00	mg/L	SM5310 B	98	90-110	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
 QUALITY CONTROL REPORT**
 Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC	
				Result					Qualifier	Type
Duplicate										
310.2_151103										
	51758	ALKALINITY	538	541		mg/L	0.6	0-20		DUP
	52024	ALKALINITY	575	574		mg/L	0.2	0-20		DUP
	52188	ALKALINITY	698	710		mg/L	1.7	0-20		DUP
350.1_151105										
	52189	AMMONIA-N	ND	ND		mg/L	NA	0-20		DUP
	52895	AMMONIA-N	14.4	14.5		mg/L	0.7	0-20		DUP
6010B_151106A										
	51468	IRON	0.15	0.16		mg/L	6.5	0-20		DUP
	51468	CALCIUM	61.3	60.0		mg/L	2.1	0-20		DUP
	51468	MAGNESIUM	74.5	73.7		mg/L	1.1	0-20		DUP
	51468	POTASSIUM	9.5	9.4		mg/L	1.1	0-20		DUP
	51468	SODIUM	45.9	45.4		mg/L	1.1	0-20		DUP
	51762	IRON	0.31	0.31		mg/L	0.0	0-20		DUP
	51762	CALCIUM	138.7	135.4		mg/L	2.4	0-20		DUP
	51762	MAGNESIUM	107.7	105.1		mg/L	2.4	0-20		DUP
	51762	POTASSIUM	9.7	9.6		mg/L	1.0	0-20		DUP
	51762	SODIUM	49.8	48.7		mg/L	2.2	0-20		DUP
	52028	IRON	0.19	0.19		mg/L	0.0	0-20		DUP
	52028	CALCIUM	40.0	40.3		mg/L	0.7	0-20		DUP
	52028	MAGNESIUM	55.1	55.9		mg/L	1.4	0-20		DUP
	52028	POTASSIUM	9.0	9.2		mg/L	2.2	0-20		DUP
	52028	SODIUM	28.7	29.3		mg/L	2.1	0-20		DUP
	52192	IRON	0.17	0.17		mg/L	0.0	0-20		DUP
	52192	CALCIUM	60.5	60.1		mg/L	0.7	0-20		DUP

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Batch	Sample	Analyte	Duplicate		Units	%RPD	Limits	QC		
			Result	Result				Qualifier	Type	Comments
	52192	MAGNESIUM	40.6	40.3	mg/L	0.7	0-20		DUP	
	52192	POTASSIUM	6.1	6.1	mg/L	0.0	0-20		DUP	
	52192	SODIUM	25.8	25.6	mg/L	0.8	0-20		DUP	
6020_151109										
	51468	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51468	ARSENIC	0.0072	0.0072	mg/L	0.0	0-20		DUP	
	51468	BARIUM	0.065	0.065	mg/L	0.0	0-20		DUP	
	51468	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51468	COPPER	ND	ND	mg/L	NA	0-20		DUP	
	51468	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51468	MANGANESE	0.158	0.159	mg/L	0.6	0-20		DUP	
	51468	NICKEL	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SELENIUM	0.001	0.001	mg/L	0.0	0-20		DUP	
	51468	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	51468	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	VANADIUM	ND	ND	mg/L	NA	0-20		DUP	
	51468	ZINC	ND	ND	mg/L	NA	0-20		DUP	
	51762	ANTIMONY	ND	ND	mg/L	NA	0-20		DUP	
	51762	ARSENIC	0.005	0.005	mg/L	0.0	0-20		DUP	
	51762	BARIUM	0.108	0.104	mg/L	3.8	0-20		DUP	
	51762	BERYLLIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CADMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	CHROMIUM	ND	ND	mg/L	NA	0-20		DUP	
	51762	COBALT	ND	ND	mg/L	NA	0-20		DUP	
	51762	COPPER	0.001	0.001	mg/L	0.0	0-20		DUP	
	51762	LEAD	ND	ND	mg/L	NA	0-20		DUP	
	51762	MANGANESE	0.224	0.233	mg/L	3.9	0-20		DUP	
	51762	NICKEL	0.011	0.011	mg/L	0.0	0-20		DUP	
	51762	SELENIUM	0.0014	0.0017	mg/L	19.4	0-20		DUP	
	51762	SILVER	ND	ND	mg/L	NA	0-20		DUP	
	51762	THALLIUM	ND	ND	mg/L	NA	0-20		DUP	

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FORM: QC Dependent.rpt

Batch	Sample	Analyte	Result	Duplicate		Units	%RPD	Limits	QC		
				Result	Result				Qualifier	Type	Comments
	51762	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	51762	ZINC	0.0027	0.002		mg/L	29.8	0-20	IM		DUP
	52028	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	52028	ARSENIC	0.004	0.004		mg/L	0.0	0-20			DUP
	52028	BARIUM	0.031	0.030		mg/L	3.3	0-20			DUP
	52028	BERYLLIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	CADMIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	CHROMIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	COBALT	ND	ND		mg/L	NA	0-20			DUP
	52028	COPPER	0.0078	0.007		mg/L	10.8	0-20			DUP
	52028	LEAD	0.0009	0.0009		mg/L	0.0	0-20			DUP
	52028	MANGANESE	0.006	0.0055		mg/L	8.7	0-20			DUP
	52028	NICKEL	0.002	0.002		mg/L	0.0	0-20			DUP
	52028	SELENIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	SILVER	ND	ND		mg/L	NA	0-20			DUP
	52028	THALLIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	52028	ZINC	0.579	0.563		mg/L	2.8	0-20			DUP
	52192	ANTIMONY	ND	ND		mg/L	NA	0-20			DUP
	52192	ARSENIC	0.006	0.006		mg/L	0.0	0-20			DUP
	52192	BARIUM	0.023	0.024		mg/L	4.3	0-20			DUP
	52192	BERYLLIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	CADMIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	CHROMIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	COBALT	ND	ND		mg/L	NA	0-20			DUP
	52192	COPPER	ND	ND		mg/L	NA	0-20			DUP
	52192	LEAD	ND	ND		mg/L	NA	0-20			DUP
	52192	MANGANESE	0.146	0.134		mg/L	8.6	0-20			DUP
	52192	NICKEL	ND	ND		mg/L	NA	0-20			DUP
	52192	SELENIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	SILVER	ND	ND		mg/L	NA	0-20			DUP
	52192	THALLIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	VANADIUM	ND	ND		mg/L	NA	0-20			DUP
	52192	ZINC	0.067	0.065		mg/L	3.0	0-20			DUP

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Batch	Sample	Analyte	Result	Duplicate	Units	%RPD	Limits	QC		
				Result				Qualifier	Type	Comments
COD_151105										
	52191	CHEMICAL OXYGEN DEMAND	ND	ND	mg/L	NA	0-20		DUP	
	52805	CHEMICAL OXYGEN DEMAND	158	166	mg/L	4.9	0-20		DUP	
I151030A										
	51334	CHLORIDE	ND	ND	mg/L	NA	0-20		DUP	
	51928	CHLORIDE	16.6	16.7	mg/L	0.6	0-20		DUP	
	52095	CHLORIDE	13.2	13.4	mg/L	1.5	0-20		DUP	
	52095	FLUORIDE	0.12	0.13	mg/L	8.0	0-20		DUP	
	52190	CHLORIDE	51.9	51.8	mg/L	0.2	0-20		DUP	
	52190	FLUORIDE	ND	ND	mg/L	NA	0-20		DUP	
	52190	SULFATE	41.7	41.7	mg/L	0.0	0-20		DUP	
	52190	TOTAL NITRATE/NITRITE	1.44	1.45	mg/L	0.7	0-20		DUP	
TOC_151106										
	52185	TOTAL ORGANIC CARBON	3.37	3.34	mg/L	0.9	0-20		DUP	
	52407	TOTAL ORGANIC CARBON	3.04	3.05	mg/L	0.3	0-20		DUP	
	52417	TOTAL ORGANIC CARBON	3.30	3.32	mg/L	0.6	0-20		DUP	
	52656	TOTAL ORGANIC CARBON	ND	ND	mg/L	NA	0-20		DUP	
	53017	TOTAL ORGANIC CARBON	ND	ND	mg/L	NA	0-20		DUP	
	53613	TOTAL ORGANIC CARBON	1.21	1.22	mg/L	0.8	0-20		DUP	

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
Laboratory Fortified Matrix (MS)															
310.2_151103															
	51758	ALKALINITY	538	715	729	250	mg/L	71	76	70-130	7.6	0-20			LFM
	52024	ALKALINITY	575	677	681	125	mg/L	82	85	70-130	3.8	0-20			LFM
	52188	ALKALINITY	698	1080	1220	250	mg/L	153	209	70-130	31.0	0-20	IM		LFM
350.1_151105															
	52027	AMMONIA-N	0.05	1.04	1.07	1.00	mg/L	99	102	70-130	3.0	0-20			LFM
	52189	AMMONIA-N	ND	0.97	1.01	1.00	mg/L	97	101	70-130	4.0	0-20			LFM
	52895	AMMONIA-N	14.4	15.2	15.2	1.00	mg/L	80	80	70-130	0.0	0-20			LFM
6010B_151106A															
	51468	IRON	0.15	1.24	1.22	1.00	mg/L	109	107	75-125	1.9	0-20			LFM
	51468	CALCIUM	61.3	86.0	86.7	26.0	mg/L	95	98	75-125	2.8	0-20			LFM
	51468	MAGNESIUM	74.5	97.9	98.3	26.0	mg/L	90	92	75-125	1.7	0-20			LFM
	51468	POTASSIUM	9.5	41.8	41.4	35.0	mg/L	92	91	75-125	1.2	0-20			LFM
	51762	IRON	0.31	1.38		1.00	mg/L	107		75-125	NA	0-20			LFM
	51762	CALCIUM	138.7	160.0		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	MAGNESIUM	107.7	129.1		26.0	mg/L	82		75-125	NA	0-20			LFM
	51762	POTASSIUM	9.7	41.6		35.0	mg/L	91		75-125	NA	0-20			LFM
	52028	IRON	0.19	1.25		1.00	mg/L	106		75-125	NA	0-20			LFM
	52028	CALCIUM	40.0	69.7		26.0	mg/L	114		75-125	NA	0-20			LFM
	52028	MAGNESIUM	55.1	82.9		26.0	mg/L	107		75-125	NA	0-20			LFM
	52028	POTASSIUM	9.0	41.8		35.0	mg/L	94		75-125	NA	0-20			LFM
	52192	IRON	0.17	1.25		1.00	mg/L	108		75-125	NA	0-20			LFM
	52192	CALCIUM	60.5	87.4		26.0	mg/L	103		75-125	NA	0-20			LFM
	52192	MAGNESIUM	40.6	66.3		26.0	mg/L	99		75-125	NA	0-20			LFM
	52192	POTASSIUM	6.1	37.9		35.0	mg/L	91		75-125	NA	0-20			LFM
6020_151109															
	51468	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20			LFM
	51468	ARSENIC	0.0072	0.032		0.025	mg/L	99		75-125	NA	0-20			LFM
	51468	BARIUM	0.065	0.090		0.025	mg/L	100		75-125	NA	0-20			LFM
	51468	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM
	51468	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20			LFM
	51468	CHROMIUM	ND	0.027		0.025	mg/L	108		75-125	NA	0-20			LFM
	51468	COBALT	ND	0.026		0.025	mg/L	104		75-125	NA	0-20			LFM

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				Spike Result	Spike Result			MS	MSD	Qualifier				Type		
	51468	COPPER	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51468	LEAD	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	MANGANESE	0.158	0.184		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	NICKEL	0.001	0.026		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51468	SELENIUM	0.001	0.023		0.025	mg/L	88			75-125	NA	0-20		LFM	
	51468	SILVER	ND	0.012		0.0125	mg/L	96			75-125	NA	0-20		LFM	
	51468	THALLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51468	VANADIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51468	ZINC	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	ANTIMONY	ND	0.028		0.025	mg/L	112			75-125	NA	0-20		LFM	
	51762	ARSENIC	0.005	0.030		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	BARIUM	0.108	0.130		0.025	mg/L	88			75-125	NA	0-20		LFM	
	51762	BERYLLIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	CHROMIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	COBALT	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	COPPER	0.001	0.027		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	LEAD	ND	0.024		0.025	mg/L	96			75-125	NA	0-20		LFM	
	51762	MANGANESE	0.224	0.250		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	NICKEL	0.011	0.037		0.025	mg/L	104			75-125	NA	0-20		LFM	
	51762	SELENIUM	0.001	0.025		0.025	mg/L	96			75-125	NA	0-20		LFM	
	51762	SILVER	ND	0.012		0.0125	mg/L	96			75-125	NA	0-20		LFM	
	51762	THALLIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	51762	VANADIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	51762	ZINC	0.0027	0.026		0.025	mg/L	93			75-125	NA	0-20		LFM	
	52028	ANTIMONY	ND	0.028		0.025	mg/L	112			75-125	NA	0-20		LFM	
	52028	ARSENIC	0.004	0.029		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	BARIUM	0.031	0.056		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	BERYLLIUM	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	52028	CADMIUM	ND	0.025		0.025	mg/L	100			75-125	NA	0-20		LFM	
	52028	CHROMIUM	ND	0.027		0.025	mg/L	108			75-125	NA	0-20		LFM	
	52028	COBALT	ND	0.026		0.025	mg/L	104			75-125	NA	0-20		LFM	
	52028	COPPER	0.008	0.032		0.025	mg/L	96			75-125	NA	0-20		LFM	
	52028	LEAD	0.0009	0.026		0.025	mg/L	100			75-125	NA	0-20		LFM	

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				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	52028	MANGANESE	0.006	0.032		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	NICKEL	0.002	0.027		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20		LFM	
	52028	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	52028	THALLIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52028	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52028	ZINC	0.579	0.590		0.025	mg/L	44		75-125	NA	0-20	IS	LFM	
	52192	ANTIMONY	ND	0.028		0.025	mg/L	112		75-125	NA	0-20		LFM	
	52192	ARSENIC	0.006	0.030		0.025	mg/L	96		75-125	NA	0-20		LFM	
	52192	BARIUM	0.023	0.050		0.025	mg/L	108		75-125	NA	0-20		LFM	
	52192	BERYLLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	CADMIUM	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	CHROMIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	COBALT	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	COPPER	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	LEAD	ND	0.025		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	MANGANESE	0.146	0.171		0.025	mg/L	100		75-125	NA	0-20		LFM	
	52192	NICKEL	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	SELENIUM	ND	0.023		0.025	mg/L	92		75-125	NA	0-20		LFM	
	52192	SILVER	ND	0.012		0.0125	mg/L	96		75-125	NA	0-20		LFM	
	52192	THALLIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	VANADIUM	ND	0.026		0.025	mg/L	104		75-125	NA	0-20		LFM	
	52192	ZINC	0.067	0.089		0.025	mg/L	88		75-125	NA	0-20		LFM	
8260W_151106															
	52024	1,1 - DICHLOROETHANE	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20		LFM	
	52024	1,1 - DICHLOROETHYLENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM	
	52024	1,1,1 - TRICHLOROETHANE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM	
	52024	1,1,1,2 - TETRACHLOROETHANE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM	
	52024	1,1,2 - TRICHLOROETHANE	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20		LFM	
	52024	1,1,2,2 - TETRACHLOROETHANE	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20		LFM	
	52024	1,2 - DICHLOROBENZENE (ortho)	ND	3.9	3.6	4	ug/L	98	90	70-130	8.0	0-20		LFM	
	52024	1,2 - DICHLOROETHANE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20		LFM	
	52024	1,2 - DICHLOROPROPANE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM	
	52024	1,2,3 - TRICHLOROPROPANE	ND	4.5	4.2	4	ug/L	113	105	70-130	6.9	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
52024	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	5.2	4	ug/L	125	130	70-130	3.9	0-20		LFM		
52024	1,4 - DICHLOROBENZENE (para)	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM		
52024	2-BUTANONE (MEK)	ND				ug/L			70-130	NA	0-20		LFM		
52024	2-HEXANONE	ND				ug/L			70-130	NA	0-20		LFM		
52024	4-METHYL-2-PENTANONE	ND				ug/L			70-130	NA	0-20		LFM		
52024	ACETONE	ND				ug/L			70-130	NA	0-20		LFM		
52024	BENZENE	ND	3.9	3.8	4	ug/L	98	95	70-130	2.6	0-20		LFM		
52024	BROMOCHLOROMETHANE	ND	3.5	3.6	4	ug/L	88	90	70-130	2.8	0-20		LFM		
52024	BROMODICHLOROMETHANE	ND	3.9	3.9	4	ug/L	98	98	70-130	0.0	0-20		LFM		
52024	BROMOFORM	ND	4.3	4.0	4	ug/L	108	100	70-130	7.2	0-20		LFM		
52024	BROMOMETHANE	ND	3.9	4.9	4	ug/L	98	123	70-130	22.7	0-20		LFM		
52024	CARBON DISULFIDE	ND				ug/L			70-130	NA	0-20		LFM		
52024	CARBON TETRACHLORIDE	ND	4.0	5.1	4	ug/L	100	128	70-130	24.2	0-20		LFM		
52024	CHLOROBENZENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM		
52024	CHLOROETHANE	ND	4.8	3.0	4	ug/L	120	75	70-130	46.2	0-20		LFM		
52024	CHLOROFORM	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20		LFM		
52024	CHLOROMETHANE	ND	4.9	4.2	4	ug/L	123	105	70-130	15.4	0-20		LFM		
52024	CIS - 1,2 - DICHLOROETHENE	ND	4.1	3.8	4	ug/L	103	95	70-130	7.6	0-20		LFM		
52024	CIS - 1,3 - DICHLOROPROPENE	ND	3.3	3.5	4	ug/L	83	88	70-130	5.9	0-20		LFM		
52024	DIBROMOCHLOROMETHANE	ND	3.5	3.7	4	ug/L	88	93	70-130	5.6	0-20		LFM		
52024	DIBROMOMETHANE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20		LFM		
52024	ETHYLBENZENE	ND	4.3	4.1	4	ug/L	108	103	70-130	4.8	0-20		LFM		
52024	M,P- XYLENE	ND	8.0	7.4	8	ug/L	100	93	70-130	7.8	0-20		LFM		
52024	METHYL IODIDE	ND				ug/L			70-130	NA	0-20		LFM		
52024	METHYLENE CHLORIDE	ND	4.4	4.1	4	ug/L	110	103	70-130	7.1	0-20		LFM		
52024	O - XYLENE	ND	4.2	3.8	4	ug/L	105	95	70-130	10.0	0-20		LFM		
52024	STYRENE	ND	4.0	3.7	4	ug/L	100	93	70-130	7.8	0-20		LFM		
52024	TETRACHLOROETHYLENE	ND	3.5	3.5	4	ug/L	88	88	70-130	0.0	0-20		LFM		
52024	TOLUENE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1	0-20		LFM		
52024	TRANS - 1,2 - DICHLOROETHENE	ND	3.8	3.8	4	ug/L	95	95	70-130	0.0	0-20		LFM		
52024	TRANS - 1,3 - DICHLOROPROPENE	ND	3.3	3.7	4	ug/L	83	93	70-130	11.4	0-20		LFM		
52024	TRANS - 1,4 - DICHLORO-2-BUTENE	ND				ug/L			70-130	NA	0-20		LFM		
52024	TRICHLOROETHENE	ND	4.1	3.9	4	ug/L	103	98	70-130	5.0	0-20		LFM		
52024	TRICHLOROFLUOROMETHANE	ND	4.2	4.1	4	ug/L	105	103	70-130	2.4	0-20		LFM		

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Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery			Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD	MS				MSD	Qualifier	
	52024	VINYL ACETATE	ND				ug/L			70-130	NA	0-20			LFM	
	52024	VINYL CHLORIDE	ND	5.5	4.8	4	ug/L	138	120	70-130	13.6	0-20	M1		LFM	
8260W_151109																
	52186	1,1 - DICHLOROETHANE	ND	4.3	4.4	4	ug/L	108	110	70-130	2.3	0-20			LFM	
	52186	1,1 - DICHLOROETHYLENE	ND	4.0	4.4	4	ug/L	100	110	70-130	9.5	0-20			LFM	
	52186	1,1,1 - TRICHLOROETHANE	ND	4.1	4.3	4	ug/L	103	108	70-130	4.8	0-20			LFM	
	52186	1,1,1,2 - TETRACHLOROETHANE	ND	4.5	4.6	4	ug/L	113	115	70-130	2.2	0-20			LFM	
	52186	1,1,2 - TRICHLOROETHANE	ND	4.2	4.2	4	ug/L	105	105	70-130	0.0	0-20			LFM	
	52186	1,1,2,2 - TETRACHLOROETHANE	ND	4.4	4.3	4	ug/L	110	108	70-130	2.3	0-20			LFM	
	52186	1,2 - DICHLOROBENZENE (ortho)	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20			LFM	
	52186	1,2 - DICHLOROETHANE	ND	4.3	4.3	4	ug/L	108	108	70-130	0.0	0-20			LFM	
	52186	1,2 - DICHLOROPROPANE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5	0-20			LFM	
	52186	1,2,3 - TRICHLOROPROPANE	ND	4.7	4.3	4	ug/L	118	108	70-130	8.9	0-20			LFM	
	52186	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	4.4	4	ug/L	128	110	70-130	14.7	0-20			LFM	
	52186	1,4 - DICHLOROBENZENE (para)	ND	4.1	4.0	4	ug/L	103	100	70-130	2.5	0-20			LFM	
	52186	2-BUTANONE (MEK)	ND				ug/L			70-130	NA	0-20			LFM	
	52186	2-HEXANONE	ND				ug/L			70-130	NA	0-20			LFM	
	52186	4-METHYL-2-PENTANONE	ND				ug/L			70-130	NA	0-20			LFM	
	52186	ACETONE	ND				ug/L			70-130	NA	0-20			LFM	
	52186	BENZENE	ND	4.0	4.2	4	ug/L	100	105	70-130	4.9	0-20			LFM	
	52186	BROMOCHLOROMETHANE	ND	4.0	3.8	4	ug/L	100	95	70-130	5.1	0-20			LFM	
	52186	BROMODICHLOROMETHANE	ND	4.0	4.3	4	ug/L	100	108	70-130	7.2	0-20			LFM	
	52186	BROMOFORM	ND	4.5	4.8	4	ug/L	113	120	70-130	6.5	0-20			LFM	
	52186	BROMOMETHANE	ND	3.1	3.7	4	ug/L	78	93	70-130	17.6	0-20			LFM	
	52186	CARBON DISULFIDE	ND				ug/L			70-130	NA	0-20			LFM	
	52186	CARBON TETRACHLORIDE	ND	6.0	7.8	4	ug/L	150	195	70-130	26.1	0-20	HR		LFM	
	52186	CHLOROBENZENE	ND	4.1	4.2	4	ug/L	103	105	70-130	2.4	0-20			LFM	
	52186	CHLOROETHANE	ND	5.1	5.1	4	ug/L	128	128	70-130	0.0	0-20			LFM	
	52186	CHLOROFORM	ND	4.2	4.3	4	ug/L	105	108	70-130	2.4	0-20			LFM	
	52186	CHLOROMETHANE	ND	4.3	4.3	4	ug/L	108	108	70-130	0.0	0-20			LFM	
	52186	CIS - 1,2 - DICHLOROETHENE	ND	4.4	4.4	4	ug/L	110	110	70-130	0.0	0-20			LFM	
	52186	CIS - 1,3 - DICHLOROPROPENE	ND	3.7	3.8	4	ug/L	93	95	70-130	2.7	0-20			LFM	
	52186	DIBROMOCHLOROMETHANE	ND	3.8	3.9	4	ug/L	95	98	70-130	2.6	0-20			LFM	
	52186	DIBROMOMETHANE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20			LFM	

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Batch	Sample	Analyte	Result	Duplicate			Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result	Spike Conc		MS	MSD				Qualifier	Type	
	52186	ETHYLBENZENE	ND	4.7	4.6	4	ug/L	118	115	70-130	2.2	0-20		LFM	
	52186	M,P- XYLENE	ND	8.6	8.2	8	ug/L	108	103	70-130	4.8	0-20		LFM	
	52186	METHYL IODIDE	ND				ug/L			70-130	NA	0-20		LFM	
	52186	METHYLENE CHLORIDE	ND	4.2	4.5	4	ug/L	105	113	70-130	6.9	0-20		LFM	
	52186	O - XYLENE	ND	4.3	4.3	4	ug/L	108	108	70-130	0.0	0-20		LFM	
	52186	STYRENE	ND	4.0	3.9	4	ug/L	100	98	70-130	2.5	0-20		LFM	
	52186	TETRACHLOROETHYLENE	ND	4.0	4.1	4	ug/L	100	103	70-130	2.5	0-20		LFM	
	52186	TOLUENE	ND	4.1	4.3	4	ug/L	103	108	70-130	4.8	0-20		LFM	
	52186	TRANS - 1,2 - DICHLOROETHENE	ND	4.2	4.4	4	ug/L	105	110	70-130	4.7	0-20		LFM	
	52186	TRANS - 1,3 - DICHLOROPROPENE	ND	3.6	3.9	4	ug/L	90	98	70-130	8.0	0-20		LFM	
	52186	TRANS - 1,4 - DICHLORO-2-BUTENE	ND				ug/L			70-130	NA	0-20		LFM	
	52186	TRICHLOROETHENE	ND	4.3	4.2	4	ug/L	108	105	70-130	2.4	0-20		LFM	
	52186	TRICHLOROFLUOROMETHANE	ND	4.4	4.7	4	ug/L	110	118	70-130	6.6	0-20		LFM	
	52186	VINYL ACETATE	ND				ug/L			70-130	NA	0-20		LFM	
	52186	VINYL CHLORIDE	ND	4.9	5.2	4	ug/L	123	130	70-130	5.9	0-20		LFM	
COD_151105															
	52191	CHEMICAL OXYGEN DEMAND	ND	49	55	50	mg/L	98	110	70-130	11.5	0-20		LFM	
	52805	CHEMICAL OXYGEN DEMAND	166	221	214	50	mg/L	110	96	70-130	13.6	0-20		LFM	
I151030A															
	51334	CHLORIDE	ND	18.5		20	mg/L	93	NA	90-110	NA	0-20		LFM	
	51928	CHLORIDE	16.6	35.3		20	mg/L	94	NA	90-110	NA	0-20		LFM	
	52095	CHLORIDE	13.2	14.3		1	mg/L	110	NA	90-110	NA	0-20		LFM	
	52095	FLUORIDE	0.12	1.06		1	mg/L	94	NA	90-110	NA	0-20		LFM	
	52190	CHLORIDE	51.9	52		1	mg/L	10	NA	90-110	NA	0-20	IS	LFM	
	52190	FLUORIDE	ND	0.99		1	mg/L	99	NA	90-110	NA	0-20		LFM	
	52190	SULFATE	41.7	42.8		2	mg/L	55	NA	90-110	NA	0-20	IS	LFM	
	52190	TOTAL NITRATE/NITRITE	1.44	3.45		2	mg/L	101	NA	90-110	NA	0-20		LFM	
SIM_151102															
	52186	1,2 - DIBROMOETHANE (EDB SIM)		0.101	0.104	0.1	ug/L	101	104	70-130	2.9	0-20		LFM	
	52186	ACRYLONITRILE (SIM)		0.097	0.104	0.1	ug/L	97	104	70-130	7.0	0-20		LFM	
	52186	VINYL CHLORIDE (SIM)		0.115	0.112	0.1	ug/L	115	112	70-130	2.6	0-20		LFM	
TOC_151106															
	52185	TOTAL ORGANIC CARBON	3.37	7.07		4.00	mg/L	93		70-130	NA	0-20		LFM	
	52407	TOTAL ORGANIC CARBON	3.04	6.99		4.00	mg/L	99		70-130	NA	0-20		LFM	

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Batch	Sample	Analyte	Result	Duplicate		Spike Conc	Units	Percent Recovery		Limits*	%RPD	Limits*	QC		Comments
				Spike Result	Spike Result			MS	MSD				Qualifier	Type	
	52417	TOTAL ORGANIC CARBON	3.30	7.08		4.00	mg/L	95		70-130	NA	0-20			LFM
	52656	TOTAL ORGANIC CARBON	ND	3.76		4.00	mg/L	94		70-130	NA	0-20			LFM
	53017	TOTAL ORGANIC CARBON	ND	3.89		4.00	mg/L	97		70-130	NA	0-20			LFM
	53613	TOTAL ORGANIC CARBON	1.21	4.97		4.00	mg/L	94		70-130	NA	0-20			LFM

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Qualifier Definitions

Reference Number: 15-23522

Report Date: 11/13/15

Qualifier	Definition
HR	High QCS recovery due to increased detector response No sample dectections, therefore, no further action taken for this analysis set.
IM	Matrix induced bias assumed
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
LE	The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Matrix bias indicated.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS) PAGE 1 OF 1

REPORT TO: SCS ENGINEERS	BILL TO: ISLAND COUNTY SOLID WASTE	REF#
ADDRESS: 2405 140TH AVE. NE STE 107	ADDRESS: PO Box 5000	FOR LAB USE ONLY
CITY: BELLEVEUE STATE: WA ZIP: 98005	CITY: Coupeville STATE: WA ZIP: 98239	<input type="checkbox"/> CHECK REGULATORY PROGRAM
ATTN: ELENA RAMIREZ	PHONE: 360-678-7338 FAX: 360-678-7338	<input type="checkbox"/> SAFE DRINKING WATER ACT
PHONE: 425-746-4600 FAX: 425-746-6747	P.O.#:	<input type="checkbox"/> CLEAN WATER ACT
EMAIL: eramirez@scsengineers.com	<input type="checkbox"/> VISA <input type="checkbox"/> M/C <input type="checkbox"/> A/E <input type="checkbox"/> EXPRES	<input type="checkbox"/> RCRA / CERCLA
PROJECT NAME: COUPEVILLE LANDFILL	CARD#	<input type="checkbox"/> OTHER

EDGE ANALYTICAL
 Main Lab (800-755-9295)
 7829 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

15-23522
 52185 - 52193

- INSTRUCTIONS**
1. USE ONE LINE PER SAMPLE LOCATION.
 2. BE SPECIFIC IN TEST REQUESTS.
 3. NEW LIST EACH METAL INDIVIDUALLY. NEW
 4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
 5. ENTER NUMBER OF CONTAINERS.

SAMPLE ID	LOCATION	GRAB/COMP.	SAMPLE MATRIX *	DATE	TIME	TURN AROUND TIME REQUIRED		Total Metals	NO2/NO3, NH3, COD	8260B	8260SIM	Chloride, Sulfate, TDS, Fluoride	Total Alka, Bicarb	TOC	8151	NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
						<input checked="" type="checkbox"/> STANDARD	<input type="checkbox"/> HALF-TIME (50% SURCHARGE)										
1	1015- 24	G	GW	10/29/15	957	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
2	1015- 25	G	GW		1111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	17	MS/MSD
3	1015- 26	G	GW		1242	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
4	1015- 27	G	GW		1451	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
5	1015- 28	G	GW		1558	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
6	1015- 29	G	GW		1700	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
7	1015- 30	G	GW		1813	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
8	1015- 31	G	GW	10/30/15	1330	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
9	1015- 32	G	GW		1410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	
10	1015-	G	GW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	

SAMPLED BY: Sam Graber PHONE: (612) 940-2980 FAX: EMAIL: SGrabber@scsengineers.com

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) * W-WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL
 DW-DRINKING WATER GW-GROUND WATER S-SOIL OTHER _____

REINQUISHED BY: Sam Graber DATE: 10/30/15 TIME: 1600 RECEIVED BY: [Signature] DATE: 10-30-15 TIME: 1600

CUSTODY SEALS INTACT YES NO N/A
 SAMPLE TEMP 6 °C SATISFACTORY YES NO N/A
 EVIDENCE OF COOLING YES NO N/A
 SAMPLES RECEIVED INTACT YES NO N/A
 CHAIN OF CUSTODY & LABELS AGREE YES NO N/A

FORM: COC 01-06-2011

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: 580-54732-1

Client Project/Site: CSWF Washington

For:

SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti



Authorized for release by:

11/12/2015 11:53:29 AM

Christabel Escarez, Project Manager I

(253)922-2310

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Designee for

Sarah Murphy, Project Manager I

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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.

1

2

3

4

5

6

7

8

9

10

11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	4
Client Sample Results	5
QC Sample Results	13
Chronicle	20
Certification Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24

Case Narrative

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Job ID: 580-54732-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-54732-1

Comments

No additional comments.

Receipt

The samples were received on 11/2/2015 4:35 PM; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method(s) 8260B: The method blank for preparation batch 580-205051 contained Methylene Chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch analytical batch 580-205051 recovered outside control limits for Methylene Chloride. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 580-205173 recovered above the upper control limit for Carbon tetrachloride, tert-Butylbenzene and 1,1,1-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: CSWF-102915-01 (580-54732-1), CSWF-102915-02 (580-54732-2), CSWF-102915-03 (580-54732-3), CSWF-102915-04 (580-54732-4) and (CCVIS 580-205173/2).

Method(s) 8260B: The method blank for analytical batch 580-205173 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for batch analytical batch 580-205173 recovered outside control limits for tert-Butylbenzene. This analyte was biased high in the LCSD and was 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.

Definitions/Glossary

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Qualifiers

GC/MS 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.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-01

Lab Sample ID: 580-54732-1

Date Collected: 10/29/15 09:57

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 14:34	1
2-Chlorotoluene	ND		0.50	0.070	ug/L			11/06/15 14:34	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			11/06/15 14:34	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			11/06/15 14:34	1
Chlorobenzene	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Vinyl chloride	ND		0.020	0.013	ug/L			11/06/15 14:34	1
sec-Butylbenzene	ND		0.50	0.070	ug/L			11/06/15 14:34	1
Dibromomethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
m-Xylene & p-Xylene	ND		0.50	0.050	ug/L			11/06/15 14:34	1
o-Xylene	ND		0.50	0.060	ug/L			11/06/15 14:34	1
1,2,4-Trichlorobenzene	ND		0.20	0.040	ug/L			11/06/15 14:34	1
Styrene	ND		0.50	0.10	ug/L			11/06/15 14:34	1
Chlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Dichlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 14:34	1
Benzene	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Chloroethane	ND		0.50	0.075	ug/L			11/06/15 14:34	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			11/06/15 14:34	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			11/06/15 14:34	1
N-Propylbenzene	ND		0.20	0.025	ug/L			11/06/15 14:34	1
n-Butylbenzene	ND		0.50	0.080	ug/L			11/06/15 14:34	1
1,1-Dichloropropene	ND		0.10	0.015	ug/L			11/06/15 14:34	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/06/15 14:34	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
1,2,4-Trimethylbenzene	ND		0.20	0.030	ug/L			11/06/15 14:34	1
Toluene	0.025	J	0.20	0.025	ug/L			11/06/15 14:34	1
Naphthalene	ND		0.50	0.10	ug/L			11/06/15 14:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.083	ug/L			11/06/15 14:34	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Chloroform	ND		0.20	0.030	ug/L			11/06/15 14:34	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			11/06/15 14:34	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			11/06/15 14:34	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Chloromethane	ND		0.30	0.050	ug/L			11/06/15 14:34	1
Methylene Chloride	ND	*	0.50	0.11	ug/L			11/06/15 14:34	1
1,1-Dichloroethene	ND		0.10	0.018	ug/L			11/06/15 14:34	1
Isopropylbenzene	ND		0.50	0.060	ug/L			11/06/15 14:34	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Tetrachloroethene	ND		0.50	0.070	ug/L			11/06/15 14:34	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			11/06/15 14:34	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			11/06/15 14:34	1
Bromoform	ND		0.50	0.080	ug/L			11/06/15 14:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			11/06/15 14:34	1
Trichlorofluoromethane	ND		0.50	0.025	ug/L			11/06/15 14:34	1
Trichloroethene	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Bromobenzene	ND		0.20	0.035	ug/L			11/06/15 14:34	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
1,1,1,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-01

Lab Sample ID: 580-54732-1

Date Collected: 10/29/15 09:57

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.20	0.030	ug/L			11/06/15 14:34	1
Hexachlorobutadiene	ND		0.50	0.075	ug/L			11/06/15 14:34	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 14:34	1
Bromomethane	ND		1.0	0.16	ug/L			11/06/15 14:34	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 120		11/06/15 14:34	1
Trifluorotoluene (Surr)	88		80 - 127		11/06/15 14:34	1
Toluene-d8 (Surr)	94		75 - 125		11/06/15 14:34	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 128		11/06/15 14:34	1
Dibromofluoromethane (Surr)	88		85 - 115		11/06/15 14:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			11/09/15 13:00	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			11/09/15 13:00	1
tert-Butylbenzene	ND	*	0.50	0.10	ug/L			11/09/15 13:00	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			11/09/15 13:00	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/09/15 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120		11/09/15 13:00	1
Trifluorotoluene (Surr)	93		80 - 127		11/09/15 13:00	1
Toluene-d8 (Surr)	104		75 - 125		11/09/15 13:00	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 128		11/09/15 13:00	1
Dibromofluoromethane (Surr)	90		85 - 115		11/09/15 13:00	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-02

Lab Sample ID: 580-54732-2

Date Collected: 10/29/15 14:51

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:00	1
2-Chlorotoluene	ND		0.50	0.070	ug/L			11/06/15 15:00	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			11/06/15 15:00	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			11/06/15 15:00	1
Chlorobenzene	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Vinyl chloride	0.25		0.020	0.013	ug/L			11/06/15 15:00	1
sec-Butylbenzene	ND		0.50	0.070	ug/L			11/06/15 15:00	1
Dibromomethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
m-Xylene & p-Xylene	ND		0.50	0.050	ug/L			11/06/15 15:00	1
o-Xylene	ND		0.50	0.060	ug/L			11/06/15 15:00	1
1,2,4-Trichlorobenzene	ND		0.20	0.040	ug/L			11/06/15 15:00	1
Styrene	ND		0.50	0.10	ug/L			11/06/15 15:00	1
Chlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Dichlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:00	1
Benzene	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Chloroethane	ND		0.50	0.075	ug/L			11/06/15 15:00	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			11/06/15 15:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			11/06/15 15:00	1
N-Propylbenzene	ND		0.20	0.025	ug/L			11/06/15 15:00	1
n-Butylbenzene	ND		0.50	0.080	ug/L			11/06/15 15:00	1
1,1-Dichloropropene	ND		0.10	0.015	ug/L			11/06/15 15:00	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/06/15 15:00	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
1,2,4-Trimethylbenzene	ND		0.20	0.030	ug/L			11/06/15 15:00	1
Toluene	0.029	J	0.20	0.025	ug/L			11/06/15 15:00	1
Naphthalene	ND		0.50	0.10	ug/L			11/06/15 15:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.083	ug/L			11/06/15 15:00	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Chloroform	ND		0.20	0.030	ug/L			11/06/15 15:00	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			11/06/15 15:00	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Dichlorodifluoromethane	31		0.40	0.050	ug/L			11/06/15 15:00	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Chloromethane	ND		0.30	0.050	ug/L			11/06/15 15:00	1
Methylene Chloride	ND	*	0.50	0.11	ug/L			11/06/15 15:00	1
1,1-Dichloroethene	ND		0.10	0.018	ug/L			11/06/15 15:00	1
Isopropylbenzene	ND		0.50	0.060	ug/L			11/06/15 15:00	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Tetrachloroethene	ND		0.50	0.070	ug/L			11/06/15 15:00	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			11/06/15 15:00	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			11/06/15 15:00	1
Bromoform	ND		0.50	0.080	ug/L			11/06/15 15:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			11/06/15 15:00	1
Trichlorofluoromethane	1.4		0.50	0.025	ug/L			11/06/15 15:00	1
Trichloroethene	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Bromobenzene	ND		0.20	0.035	ug/L			11/06/15 15:00	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
1,1,1,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-02

Lab Sample ID: 580-54732-2

Date Collected: 10/29/15 14:51

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.20	0.030	ug/L			11/06/15 15:00	1
Hexachlorobutadiene	ND		0.50	0.075	ug/L			11/06/15 15:00	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:00	1
Bromomethane	ND		1.0	0.16	ug/L			11/06/15 15:00	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 120		11/06/15 15:00	1
Trifluorotoluene (Surr)	90		80 - 127		11/06/15 15:00	1
Toluene-d8 (Surr)	94		75 - 125		11/06/15 15:00	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 128		11/06/15 15:00	1
Dibromofluoromethane (Surr)	85		85 - 115		11/06/15 15:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			11/09/15 13:26	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			11/09/15 13:26	1
tert-Butylbenzene	ND	*	0.50	0.10	ug/L			11/09/15 13:26	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			11/09/15 13:26	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/09/15 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120		11/09/15 13:26	1
Trifluorotoluene (Surr)	89		80 - 127		11/09/15 13:26	1
Toluene-d8 (Surr)	101		75 - 125		11/09/15 13:26	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 128		11/09/15 13:26	1
Dibromofluoromethane (Surr)	91		85 - 115		11/09/15 13:26	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-03

Lab Sample ID: 580-54732-3

Date Collected: 10/29/15 15:58

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:26	1
2-Chlorotoluene	ND		0.50	0.070	ug/L			11/06/15 15:26	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			11/06/15 15:26	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			11/06/15 15:26	1
Chlorobenzene	ND		0.20	0.025	ug/L			11/06/15 15:26	1
sec-Butylbenzene	ND		0.50	0.070	ug/L			11/06/15 15:26	1
Dibromomethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
m-Xylene & p-Xylene	ND		0.50	0.050	ug/L			11/06/15 15:26	1
o-Xylene	ND		0.50	0.060	ug/L			11/06/15 15:26	1
1,2,4-Trichlorobenzene	ND		0.20	0.040	ug/L			11/06/15 15:26	1
Styrene	ND		0.50	0.10	ug/L			11/06/15 15:26	1
Chlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Dichlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:26	1
Benzene	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Chloroethane	ND		0.50	0.075	ug/L			11/06/15 15:26	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			11/06/15 15:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			11/06/15 15:26	1
N-Propylbenzene	ND		0.20	0.025	ug/L			11/06/15 15:26	1
n-Butylbenzene	ND		0.50	0.080	ug/L			11/06/15 15:26	1
1,1-Dichloropropene	ND		0.10	0.015	ug/L			11/06/15 15:26	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/06/15 15:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
1,2,4-Trimethylbenzene	ND		0.20	0.030	ug/L			11/06/15 15:26	1
Toluene	0.038	J	0.20	0.025	ug/L			11/06/15 15:26	1
Naphthalene	ND		0.50	0.10	ug/L			11/06/15 15:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.083	ug/L			11/06/15 15:26	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Chloroform	ND		0.20	0.030	ug/L			11/06/15 15:26	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			11/06/15 15:26	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Dichlorodifluoromethane	46		0.40	0.050	ug/L			11/06/15 15:26	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Chloromethane	ND		0.30	0.050	ug/L			11/06/15 15:26	1
1,1-Dichloroethene	ND		0.10	0.018	ug/L			11/06/15 15:26	1
Isopropylbenzene	ND		0.50	0.060	ug/L			11/06/15 15:26	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Tetrachloroethene	ND		0.50	0.070	ug/L			11/06/15 15:26	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			11/06/15 15:26	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			11/06/15 15:26	1
Bromoform	ND		0.50	0.080	ug/L			11/06/15 15:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			11/06/15 15:26	1
Trichlorofluoromethane	1.9		0.50	0.025	ug/L			11/06/15 15:26	1
Trichloroethene	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Bromobenzene	ND		0.20	0.035	ug/L			11/06/15 15:26	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
1,1,1,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 15:26	1
Ethylbenzene	ND		0.20	0.030	ug/L			11/06/15 15:26	1
Hexachlorobutadiene	ND		0.50	0.075	ug/L			11/06/15 15:26	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-03

Lab Sample ID: 580-54732-3

Date Collected: 10/29/15 15:58

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.073	J	0.20	0.025	ug/L			11/06/15 15:26	1
Bromomethane	ND		1.0	0.16	ug/L			11/06/15 15:26	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 120		11/06/15 15:26	1
Trifluorotoluene (Surr)	89		80 - 127		11/06/15 15:26	1
Toluene-d8 (Surr)	94		75 - 125		11/06/15 15:26	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 128		11/06/15 15:26	1
Dibromofluoromethane (Surr)	88		85 - 115		11/06/15 15:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			11/09/15 13:53	1
Vinyl chloride	26		0.020	0.013	ug/L			11/09/15 13:53	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			11/09/15 13:53	1
tert-Butylbenzene	ND	*	0.50	0.10	ug/L			11/09/15 13:53	1
Methylene Chloride	0.74	B	0.50	0.11	ug/L			11/09/15 13:53	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/09/15 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 120		11/09/15 13:53	1
Trifluorotoluene (Surr)	90		80 - 127		11/09/15 13:53	1
Toluene-d8 (Surr)	101		75 - 125		11/09/15 13:53	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 128		11/09/15 13:53	1
Dibromofluoromethane (Surr)	89		85 - 115		11/09/15 13:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40		0.20	0.025	ug/L			11/10/15 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 120		11/10/15 14:45	1
Trifluorotoluene (Surr)	91		80 - 127		11/10/15 14:45	1
Toluene-d8 (Surr)	100		75 - 125		11/10/15 14:45	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 128		11/10/15 14:45	1
Dibromofluoromethane (Surr)	90		85 - 115		11/10/15 14:45	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-04

Lab Sample ID: 580-54732-4

Date Collected: 10/30/15 09:58

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:52	1
2-Chlorotoluene	ND		0.50	0.070	ug/L			11/06/15 15:52	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			11/06/15 15:52	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			11/06/15 15:52	1
Chlorobenzene	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Vinyl chloride	6.1		0.020	0.013	ug/L			11/06/15 15:52	1
sec-Butylbenzene	ND		0.50	0.070	ug/L			11/06/15 15:52	1
Dibromomethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
m-Xylene & p-Xylene	ND		0.50	0.050	ug/L			11/06/15 15:52	1
o-Xylene	ND		0.50	0.060	ug/L			11/06/15 15:52	1
1,2,4-Trichlorobenzene	ND		0.20	0.040	ug/L			11/06/15 15:52	1
Styrene	ND		0.50	0.10	ug/L			11/06/15 15:52	1
Chlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Dichlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:52	1
Benzene	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Chloroethane	ND		0.50	0.075	ug/L			11/06/15 15:52	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			11/06/15 15:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			11/06/15 15:52	1
N-Propylbenzene	ND		0.20	0.025	ug/L			11/06/15 15:52	1
n-Butylbenzene	ND		0.50	0.080	ug/L			11/06/15 15:52	1
1,1-Dichloropropene	ND		0.10	0.015	ug/L			11/06/15 15:52	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/06/15 15:52	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
1,2,4-Trimethylbenzene	ND		0.20	0.030	ug/L			11/06/15 15:52	1
Toluene	0.035	J	0.20	0.025	ug/L			11/06/15 15:52	1
Naphthalene	ND		0.50	0.10	ug/L			11/06/15 15:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.083	ug/L			11/06/15 15:52	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Chloroform	ND		0.20	0.030	ug/L			11/06/15 15:52	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			11/06/15 15:52	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Dichlorodifluoromethane	14		0.40	0.050	ug/L			11/06/15 15:52	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Chloromethane	0.17	J	0.30	0.050	ug/L			11/06/15 15:52	1
Methylene Chloride	0.48	J B *	0.50	0.11	ug/L			11/06/15 15:52	1
1,1-Dichloroethene	0.40		0.10	0.018	ug/L			11/06/15 15:52	1
Isopropylbenzene	ND		0.50	0.060	ug/L			11/06/15 15:52	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Tetrachloroethene	ND		0.50	0.070	ug/L			11/06/15 15:52	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			11/06/15 15:52	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			11/06/15 15:52	1
Bromoform	ND		0.50	0.080	ug/L			11/06/15 15:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			11/06/15 15:52	1
Trichlorofluoromethane	51		0.50	0.025	ug/L			11/06/15 15:52	1
Trichloroethene	ND		0.20	0.025	ug/L			11/06/15 15:52	1
Bromobenzene	ND		0.20	0.035	ug/L			11/06/15 15:52	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 15:52	1
1,1,1,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 15:52	1

TestAmerica Seattle

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-04

Lab Sample ID: 580-54732-4

Date Collected: 10/30/15 09:58

Matrix: Water

Date Received: 11/02/15 16:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.20	0.030	ug/L			11/06/15 15:52	1
Hexachlorobutadiene	ND		0.50	0.075	ug/L			11/06/15 15:52	1
1,1-Dichloroethane	2.1		0.20	0.025	ug/L			11/06/15 15:52	1
Bromomethane	ND		1.0	0.16	ug/L			11/06/15 15:52	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 120		11/06/15 15:52	1
Trifluorotoluene (Surr)	90		80 - 127		11/06/15 15:52	1
Toluene-d8 (Surr)	94		75 - 125		11/06/15 15:52	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 128		11/06/15 15:52	1
Dibromofluoromethane (Surr)	86		85 - 115		11/06/15 15:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.20	0.025	ug/L			11/09/15 14:19	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			11/09/15 14:19	1
tert-Butylbenzene	ND	*	0.50	0.10	ug/L			11/09/15 14:19	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/09/15 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 120		11/09/15 14:19	1
Trifluorotoluene (Surr)	91		80 - 127		11/09/15 14:19	1
Toluene-d8 (Surr)	103		75 - 125		11/09/15 14:19	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 128		11/09/15 14:19	1
Dibromofluoromethane (Surr)	93		85 - 115		11/09/15 14:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0		0.20	0.025	ug/L			11/10/15 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 120		11/10/15 15:12	1
Trifluorotoluene (Surr)	90		80 - 127		11/10/15 15:12	1
Toluene-d8 (Surr)	100		75 - 125		11/10/15 15:12	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 128		11/10/15 15:12	1
Dibromofluoromethane (Surr)	93		85 - 115		11/10/15 15:12	1

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-205051/4

Matrix: Water

Analysis Batch: 205051

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 11:08	1
2-Chlorotoluene	ND		0.50	0.070	ug/L			11/06/15 11:08	1
1,2,3-Trichloropropane	ND		0.20	0.050	ug/L			11/06/15 11:08	1
Carbon tetrachloride	ND		0.20	0.025	ug/L			11/06/15 11:08	1
cis-1,3-Dichloropropene	ND		0.50	0.090	ug/L			11/06/15 11:08	1
Chlorobenzene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Vinyl chloride	ND		0.020	0.013	ug/L			11/06/15 11:08	1
sec-Butylbenzene	ND		0.50	0.070	ug/L			11/06/15 11:08	1
Dibromomethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
m-Xylene & p-Xylene	ND		0.50	0.050	ug/L			11/06/15 11:08	1
o-Xylene	ND		0.50	0.060	ug/L			11/06/15 11:08	1
1,2,4-Trichlorobenzene	ND		0.20	0.040	ug/L			11/06/15 11:08	1
Styrene	ND		0.50	0.10	ug/L			11/06/15 11:08	1
Chlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Dichlorobromomethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
1,3-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 11:08	1
Benzene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Chloroethane	ND		0.50	0.075	ug/L			11/06/15 11:08	1
trans-1,3-Dichloropropene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			11/06/15 11:08	1
N-Propylbenzene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			11/06/15 11:08	1
n-Butylbenzene	ND		0.50	0.080	ug/L			11/06/15 11:08	1
1,1-Dichloropropene	ND		0.10	0.015	ug/L			11/06/15 11:08	1
cis-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
1,2,4-Trimethylbenzene	ND		0.20	0.030	ug/L			11/06/15 11:08	1
Toluene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Naphthalene	ND		0.50	0.10	ug/L			11/06/15 11:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.083	ug/L			11/06/15 11:08	1
1,3-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Chloroform	ND		0.20	0.030	ug/L			11/06/15 11:08	1
4-Chlorotoluene	ND		0.30	0.050	ug/L			11/06/15 11:08	1
Chlorodibromomethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Dichlorodifluoromethane	ND		0.40	0.050	ug/L			11/06/15 11:08	1
1,1,2-Trichloroethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			11/06/15 11:08	1
Chloromethane	ND		0.30	0.050	ug/L			11/06/15 11:08	1
Methylene Chloride	2.93		0.50	0.11	ug/L			11/06/15 11:08	1
1,1-Dichloroethene	ND		0.10	0.018	ug/L			11/06/15 11:08	1
Isopropylbenzene	ND		0.50	0.060	ug/L			11/06/15 11:08	1
1,2-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Tetrachloroethene	ND		0.50	0.070	ug/L			11/06/15 11:08	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
2,2-Dichloropropane	ND		0.50	0.060	ug/L			11/06/15 11:08	1
1,2-Dibromoethane	ND		0.10	0.025	ug/L			11/06/15 11:08	1
Bromoform	ND		0.50	0.080	ug/L			11/06/15 11:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.44	ug/L			11/06/15 11:08	1

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-205051/4
Matrix: Water
Analysis Batch: 205051

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	0.025	ug/L			11/06/15 11:08	1
Trichloroethene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Bromobenzene	ND		0.20	0.035	ug/L			11/06/15 11:08	1
1,2-Dichloropropane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
1,1,1,2-Tetrachloroethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Ethylbenzene	ND		0.20	0.030	ug/L			11/06/15 11:08	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Hexachlorobutadiene	ND		0.50	0.075	ug/L			11/06/15 11:08	1
1,1-Dichloroethane	ND		0.20	0.025	ug/L			11/06/15 11:08	1
Bromomethane	ND		1.0	0.16	ug/L			11/06/15 11:08	1
1,4-Dichlorobenzene	ND		0.30	0.050	ug/L			11/06/15 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 120		11/06/15 11:08	1
Trifluorotoluene (Surr)	89		80 - 127		11/06/15 11:08	1
Toluene-d8 (Surr)	94		75 - 125		11/06/15 11:08	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 128		11/06/15 11:08	1
Dibromofluoromethane (Surr)	86		85 - 115		11/06/15 11:08	1

Lab Sample ID: LCS 580-205051/5
Matrix: Water
Analysis Batch: 205051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	5.00	4.34		ug/L		87	80 - 130
2-Chlorotoluene	5.00	4.27		ug/L		85	75 - 130
1,2,3-Trichloropropane	5.01	4.73		ug/L		94	75 - 120
cis-1,3-Dichloropropene	5.01	4.63		ug/L		92	70 - 120
Chlorobenzene	5.02	4.49		ug/L		89	80 - 120
Vinyl chloride	5.03	4.74		ug/L		94	65 - 140
sec-Butylbenzene	5.01	4.32		ug/L		86	80 - 125
Dibromomethane	5.02	5.12		ug/L		102	80 - 130
m-Xylene & p-Xylene	5.01	4.13		ug/L		82	80 - 130
o-Xylene	5.01	4.22		ug/L		84	80 - 120
1,2,4-Trichlorobenzene	5.00	4.90		ug/L		98	60 - 125
Styrene	5.01	4.03		ug/L		81	75 - 130
Chlorobromomethane	5.01	4.80		ug/L		96	80 - 125
Dichlorobromomethane	5.02	4.35		ug/L		87	80 - 125
1,3-Dichlorobenzene	5.01	4.27		ug/L		85	80 - 120
Benzene	5.02	4.62		ug/L		92	80 - 120
Chloroethane	5.02	4.72		ug/L		94	75 - 140
trans-1,3-Dichloropropene	5.00	4.57		ug/L		91	60 - 140
1,2,3-Trichlorobenzene	5.01	5.24		ug/L		105	60 - 125
N-Propylbenzene	5.00	4.38		ug/L		88	80 - 120
n-Butylbenzene	5.01	4.20		ug/L		84	75 - 125
1,1-Dichloropropene	5.00	4.45		ug/L		89	80 - 130
cis-1,2-Dichloroethene	5.01	4.48		ug/L		90	80 - 130
1,1,2,2-Tetrachloroethane	5.01	5.32		ug/L		106	75 - 125

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-205051/5

Matrix: Water

Analysis Batch: 205051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	5.00	4.24		ug/L		85	80 - 125
Toluene	5.00	4.55		ug/L		91	80 - 120
Naphthalene	5.01	4.80		ug/L		96	45 - 130
1,3,5-Trimethylbenzene	5.01	4.23		ug/L		84	80 - 125
1,3-Dichloropropane	5.01	5.27		ug/L		105	80 - 130
Chloroform	5.00	4.30		ug/L		86	80 - 130
4-Chlorotoluene	5.01	4.14		ug/L		83	75 - 130
Chlorodibromomethane	5.01	4.04		ug/L		81	70 - 120
Dichlorodifluoromethane	5.01	3.12		ug/L		62	30 - 180
1,1,2-Trichloroethane	5.02	4.95		ug/L		99	80 - 130
Chloromethane	5.02	4.68		ug/L		93	50 - 140
Methylene Chloride	5.02	7.29		ug/L		145	60 - 145
1,1-Dichloroethene	5.04	4.06		ug/L		81	70 - 150
Isopropylbenzene	5.01	4.22		ug/L		84	75 - 120
1,2-Dichloroethane	5.00	4.95		ug/L		99	80 - 140
Tetrachloroethene	5.01	4.66		ug/L		93	40 - 180
2,2-Dichloropropane	5.00	3.62		ug/L		72	60 - 150
1,2-Dibromoethane	5.01	4.69		ug/L		94	70 - 130
Bromoform	5.02	3.62		ug/L		72	65 - 130
1,2-Dibromo-3-Chloropropane	5.01	3.66		ug/L		73	55 - 120
Trichlorofluoromethane	5.00	3.95		ug/L		79	30 - 180
Trichloroethene	5.01	4.59		ug/L		92	80 - 130
Bromobenzene	5.00	4.39		ug/L		88	80 - 130
1,2-Dichloropropane	5.00	5.30		ug/L		106	80 - 120
1,1,1,2-Tetrachloroethane	5.02	4.10		ug/L		82	75 - 125
Ethylbenzene	5.02	4.36		ug/L		87	80 - 125
Hexachlorobutadiene	5.00	3.90		ug/L		78	75 - 135
1,1-Dichloroethane	5.00	4.71		ug/L		94	75 - 135
Bromomethane	5.01	4.54		ug/L		91	70 - 135
1,4-Dichlorobenzene	5.01	4.30		ug/L		86	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		75 - 120
Trifluorotoluene (Surr)	90		80 - 127
Toluene-d8 (Surr)	92		75 - 125
1,2-Dichloroethane-d4 (Surr)	93		70 - 128
Dibromofluoromethane (Surr)	89		85 - 115

Lab Sample ID: LCSD 580-205051/6

Matrix: Water

Analysis Batch: 205051

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
1,2-Dichlorobenzene	5.00	4.43		ug/L		89	80 - 130	2	20
2-Chlorotoluene	5.00	4.40		ug/L		88	75 - 130	3	20
1,2,3-Trichloropropane	5.01	4.55		ug/L		91	75 - 120	4	20
cis-1,3-Dichloropropene	5.01	4.74		ug/L		95	70 - 120	2	20
Chlorobenzene	5.02	4.62		ug/L		92	80 - 120	3	20

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-205051/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 205051

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	5.03	4.41		ug/L		88	65 - 140	7	20
sec-Butylbenzene	5.01	4.44		ug/L		89	80 - 125	3	20
Dibromomethane	5.02	5.01		ug/L		100	80 - 130	2	20
m-Xylene & p-Xylene	5.01	4.23		ug/L		84	80 - 130	2	20
o-Xylene	5.01	4.31		ug/L		86	80 - 120	2	20
1,2,4-Trichlorobenzene	5.00	5.12		ug/L		102	60 - 125	4	20
Styrene	5.01	4.06		ug/L		81	75 - 130	1	20
Chlorobromomethane	5.01	4.66		ug/L		93	80 - 125	3	20
Dichlorobromomethane	5.02	4.37		ug/L		87	80 - 125	0	20
1,3-Dichlorobenzene	5.01	4.44		ug/L		89	80 - 120	4	20
Benzene	5.02	4.74		ug/L		94	80 - 120	3	20
Chloroethane	5.02	4.98		ug/L		99	75 - 140	5	20
trans-1,3-Dichloropropene	5.00	4.51		ug/L		90	60 - 140	1	20
1,2,3-Trichlorobenzene	5.01	5.59		ug/L		112	60 - 125	6	20
N-Propylbenzene	5.00	4.54		ug/L		91	80 - 120	4	20
4-Isopropyltoluene	5.00	4.16		ug/L		83	80 - 120	5	20
n-Butylbenzene	5.01	4.40		ug/L		88	75 - 125	5	20
1,1-Dichloropropene	5.00	4.59		ug/L		92	80 - 130	3	20
cis-1,2-Dichloroethene	5.01	4.51		ug/L		90	80 - 130	1	20
1,1,1,2-Tetrachloroethane	5.01	5.12		ug/L		102	75 - 125	4	20
1,2,4-Trimethylbenzene	5.00	4.38		ug/L		88	80 - 125	3	20
Toluene	5.00	4.76		ug/L		95	80 - 120	4	20
Naphthalene	5.01	4.96		ug/L		99	45 - 130	3	20
1,3,5-Trimethylbenzene	5.01	4.28		ug/L		86	80 - 125	1	20
1,3-Dichloropropane	5.01	5.18		ug/L		103	80 - 130	2	20
Chloroform	5.00	4.43		ug/L		88	80 - 130	3	20
4-Chlorotoluene	5.01	4.22		ug/L		84	75 - 130	2	20
Chlorodibromomethane	5.01	4.02		ug/L		80	70 - 120	0	20
Dichlorodifluoromethane	5.01	3.08		ug/L		61	30 - 180	2	20
1,1,2-Trichloroethane	5.02	4.95		ug/L		99	80 - 130	0	20
tert-Butylbenzene	5.00	4.04		ug/L		81	80 - 130	4	20
Chloromethane	5.02	4.76		ug/L		95	50 - 140	2	20
Methylene Chloride	5.02	8.10 *		ug/L		161	60 - 145	11	20
1,1-Dichloroethene	5.04	4.22		ug/L		84	70 - 150	4	20
Isopropylbenzene	5.01	4.25		ug/L		85	75 - 120	1	20
1,2-Dichloroethane	5.00	4.94		ug/L		99	80 - 140	0	20
Tetrachloroethene	5.01	4.80		ug/L		96	40 - 180	3	20
2,2-Dichloropropane	5.00	3.57		ug/L		71	60 - 150	1	20
1,2-Dibromoethane	5.01	4.50		ug/L		90	70 - 130	4	20
Bromoform	5.02	3.39		ug/L		68	65 - 130	7	20
1,2-Dibromo-3-Chloropropane	5.01	3.69		ug/L		74	55 - 120	1	20
Trichlorofluoromethane	5.00	3.92		ug/L		78	30 - 180	1	20
Trichloroethene	5.01	4.65		ug/L		93	80 - 130	1	20
Bromobenzene	5.00	4.59		ug/L		92	80 - 130	5	20
1,2-Dichloropropane	5.00	5.27		ug/L		105	80 - 120	1	20
1,1,1,2-Tetrachloroethane	5.02	4.13		ug/L		82	75 - 125	1	20
Ethylbenzene	5.02	4.48		ug/L		89	80 - 125	3	20
trans-1,2-Dichloroethene	5.01	4.11		ug/L		82	80 - 140	4	20

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-205051/6
Matrix: Water
Analysis Batch: 205051

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
Hexachlorobutadiene	5.00	4.22		ug/L		84	75 - 135	8	20
1,1-Dichloroethane	5.00	4.82		ug/L		96	75 - 135	2	20
Bromomethane	5.01	4.73		ug/L		94	70 - 135	4	20
1,4-Dichlorobenzene	5.01	4.40		ug/L		88	80 - 120	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	95		75 - 120
Trifluorotoluene (Surr)	93		80 - 127
Toluene-d8 (Surr)	94		75 - 125
1,2-Dichloroethane-d4 (Surr)	92		70 - 128
Dibromofluoromethane (Surr)	88		85 - 115

Lab Sample ID: MB 580-205173/4
Matrix: Water
Analysis Batch: 205173

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	0.025	ug/L			11/09/15 10:48	1
Vinyl chloride	ND		0.020	0.013	ug/L			11/09/15 10:48	1
4-Isopropyltoluene	ND		0.30	0.050	ug/L			11/09/15 10:48	1
tert-Butylbenzene	ND		0.50	0.10	ug/L			11/09/15 10:48	1
Methylene Chloride	0.153	J	0.50	0.11	ug/L			11/09/15 10:48	1
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			11/09/15 10:48	1
trans-1,2-Dichloroethene	ND		0.20	0.025	ug/L			11/09/15 10:48	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 120		11/09/15 10:48	1
Trifluorotoluene (Surr)	90		80 - 127		11/09/15 10:48	1
Toluene-d8 (Surr)	102		75 - 125		11/09/15 10:48	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 128		11/09/15 10:48	1
Dibromofluoromethane (Surr)	89		85 - 115		11/09/15 10:48	1

Lab Sample ID: LCS 580-205173/5
Matrix: Water
Analysis Batch: 205173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	5.01	6.33		ug/L		126	75 - 140
Vinyl chloride	5.03	4.76		ug/L		95	65 - 140
4-Isopropyltoluene	5.00	5.80		ug/L		116	80 - 120
tert-Butylbenzene	5.00	6.52		ug/L		130	80 - 130
Methylene Chloride	5.02	5.46		ug/L		109	60 - 145
1,1,1-Trichloroethane	5.02	6.41		ug/L		128	80 - 140
trans-1,2-Dichloroethene	5.01	5.55		ug/L		111	80 - 140

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	92		75 - 120

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-205173/5
Matrix: Water
Analysis Batch: 205173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Trifluorotoluene (Surr)	90		80 - 127
Toluene-d8 (Surr)	102		75 - 125
1,2-Dichloroethane-d4 (Surr)	89		70 - 128
Dibromofluoromethane (Surr)	88		85 - 115

Lab Sample ID: LCSD 580-205173/6
Matrix: Water
Analysis Batch: 205173

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
Carbon tetrachloride	5.01	6.26		ug/L		125	75 - 140	1	20
Vinyl chloride	5.03	5.02		ug/L		100	65 - 140	5	20
4-Isopropyltoluene	5.00	5.94		ug/L		119	80 - 120	2	20
tert-Butylbenzene	5.00	6.59	*	ug/L		132	80 - 130	1	20
Methylene Chloride	5.02	5.43		ug/L		108	60 - 145	0	20
1,1,1-Trichloroethane	5.02	6.38		ug/L		127	80 - 140	0	20
trans-1,2-Dichloroethene	5.01	5.49		ug/L		109	80 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		75 - 120
Trifluorotoluene (Surr)	89		80 - 127
Toluene-d8 (Surr)	103		75 - 125
1,2-Dichloroethane-d4 (Surr)	90		70 - 128
Dibromofluoromethane (Surr)	88		85 - 115

Lab Sample ID: MB 580-205258/4
Matrix: Water
Analysis Batch: 205258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.20	0.025	ug/L			11/10/15 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 120		11/10/15 11:42	1
Trifluorotoluene (Surr)	92		80 - 127		11/10/15 11:42	1
Toluene-d8 (Surr)	103		75 - 125		11/10/15 11:42	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 128		11/10/15 11:42	1
Dibromofluoromethane (Surr)	86		85 - 115		11/10/15 11:42	1

Lab Sample ID: LCS 580-205258/5
Matrix: Water
Analysis Batch: 205258

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	6.61		ug/L		132	80 - 140

TestAmerica Seattle

QC Sample Results

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-205258/5

Matrix: Water

Analysis Batch: 205258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		75 - 120
Trifluorotoluene (Surr)	92		80 - 127
Toluene-d8 (Surr)	101		75 - 125
1,2-Dichloroethane-d4 (Surr)	85		70 - 128
Dibromofluoromethane (Surr)	90		85 - 115

Lab Sample ID: LCSD 580-205258/6

Matrix: Water

Analysis Batch: 205258

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	5.86		ug/L		117	80 - 140	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		75 - 120
Trifluorotoluene (Surr)	92		80 - 127
Toluene-d8 (Surr)	102		75 - 125
1,2-Dichloroethane-d4 (Surr)	85		70 - 128
Dibromofluoromethane (Surr)	89		85 - 115

Lab Chronicle

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Client Sample ID: CSWF-102915-01

Date Collected: 10/29/15 09:57

Date Received: 11/02/15 16:35

Lab Sample ID: 580-54732-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	205173	11/09/15 13:00	TL1	TAL SEA
Total/NA	Analysis	8260B		1	205051	11/06/15 14:34	TL1	TAL SEA

Client Sample ID: CSWF-102915-02

Date Collected: 10/29/15 14:51

Date Received: 11/02/15 16:35

Lab Sample ID: 580-54732-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	205173	11/09/15 13:26	TL1	TAL SEA
Total/NA	Analysis	8260B		1	205051	11/06/15 15:00	TL1	TAL SEA

Client Sample ID: CSWF-102915-03

Date Collected: 10/29/15 15:58

Date Received: 11/02/15 16:35

Lab Sample ID: 580-54732-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	205173	11/09/15 13:53	TL1	TAL SEA
Total/NA	Analysis	8260B	RA2	1	205258	11/10/15 14:45	D1R	TAL SEA
Total/NA	Analysis	8260B		1	205051	11/06/15 15:26	TL1	TAL SEA

Client Sample ID: CSWF-102915-04

Date Collected: 10/30/15 09:58

Date Received: 11/02/15 16:35

Lab Sample ID: 580-54732-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	205173	11/09/15 14:19	TL1	TAL SEA
Total/NA	Analysis	8260B	RA2	1	205258	11/10/15 15:12	D1R	TAL SEA
Total/NA	Analysis	8260B		1	205051	11/06/15 15:52	TL1	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: CSWF Washington

TestAmerica Job ID: 580-54732-1

Laboratory: TestAmerica Seattle

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 (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: SCS Engineers
Project/Site: CSWF Washington

TestAmerica Job ID: 580-54732-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-54732-1	CSWF-102915-01	Water	10/29/15 09:57	11/02/15 16:35
580-54732-2	CSWF-102915-02	Water	10/29/15 14:51	11/02/15 16:35
580-54732-3	CSWF-102915-03	Water	10/29/15 15:58	11/02/15 16:35
580-54732-4	CSWF-102915-04	Water	10/30/15 09:58	11/02/15 16:35

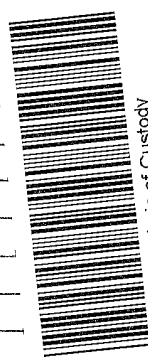
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Rush
 Short Hold

Chain of Custody Record

Client: SCS Chain of Custody Number: 30301
 Address: 2405 140th Ave. NE, Suite 107
 City: Belleve State: WA Zip Code: 98005
 Project Name and Location (State): CSWF Washington
 Contract/Purchase Order/Quote No.: 8266 low level

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
CSWF - 102915 - 01	10/29/15	957	X										X		
CSWF - 102915 - 02	↓	1451	X										X		
CSWF - 102915 - 03		1558	X										X		
CSWF - 103015 - 04	10/30/15	958	X										X		
* Trip blank *															Please do not run trip blank *



TB A2 Cooler Cor 2.2 Unc 2.3
 Cooler Disc Med Bk/wk @ Lab 1750
 Wet/Packs Packing Lab Cor

Client Contact: Dan Venchiarutti Telephone Number (Area Code)/Fax Number: (425) 289-5455
 Sampler: Sam Grabar Billing Contact: Dan Venchiarutti
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Sample Disposal 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 11/2/15 Time 4:35
Dan Venchiarutti
 2. Relinquished By Sign/Print Date _____ Time _____
 3. Relinquished By Sign/Print Date _____ Time _____

1. Received By Sign/Print Date 11/2/15 Time 16:35
Tom Harts / Blankinship
 2. Received By Sign/Print Date _____ Time _____
 3. Received By Sign/Print Date _____ Time _____

Comments: _____



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-54732-1

Login Number: 54732

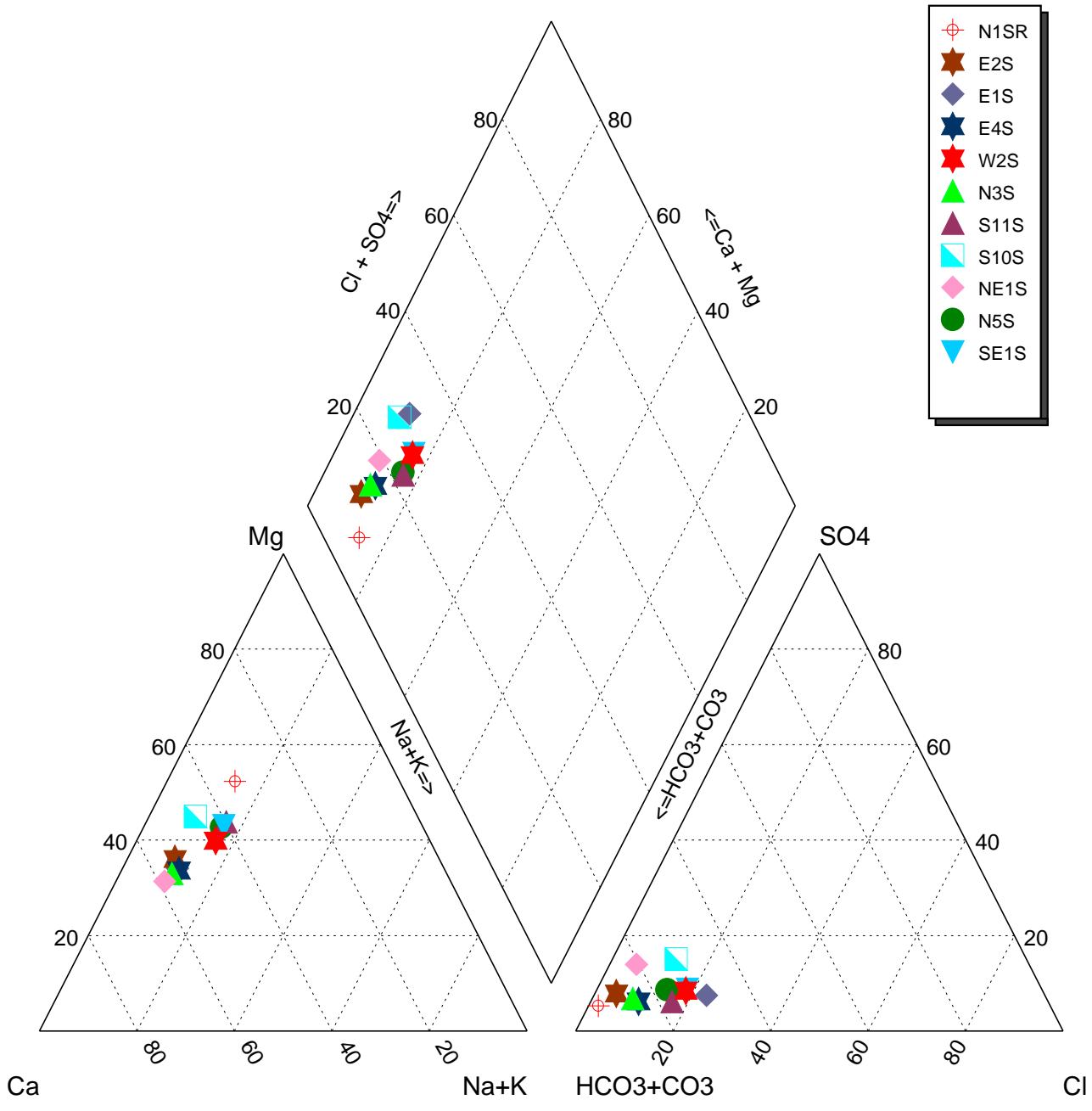
List Number: 1

Creator: Gonzales, Steve

List Source: TestAmerica Seattle

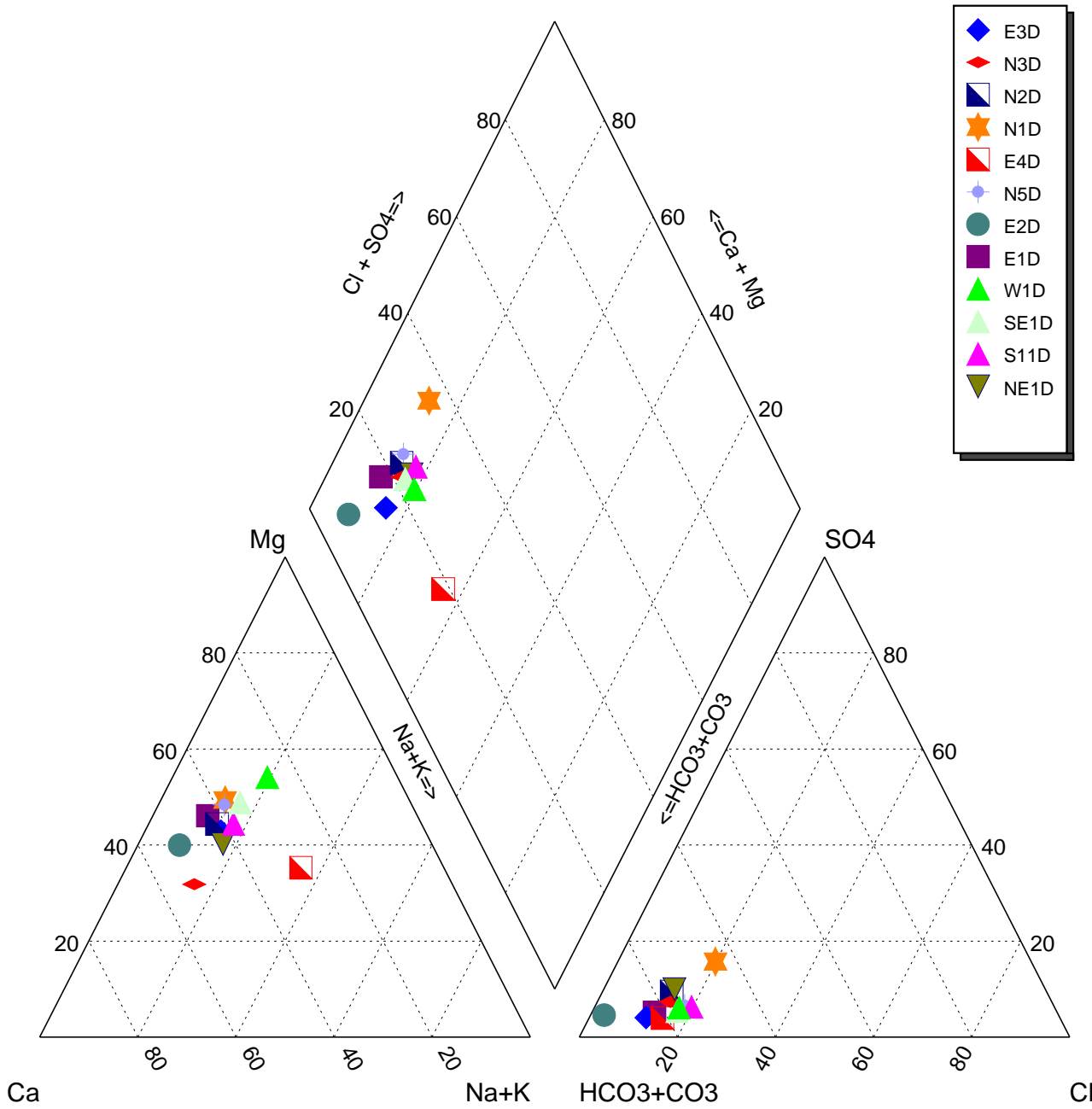
Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
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.	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	

APPENDIX C
2015 GROUNDWATER
GEOCHEMICAL EVALUATION



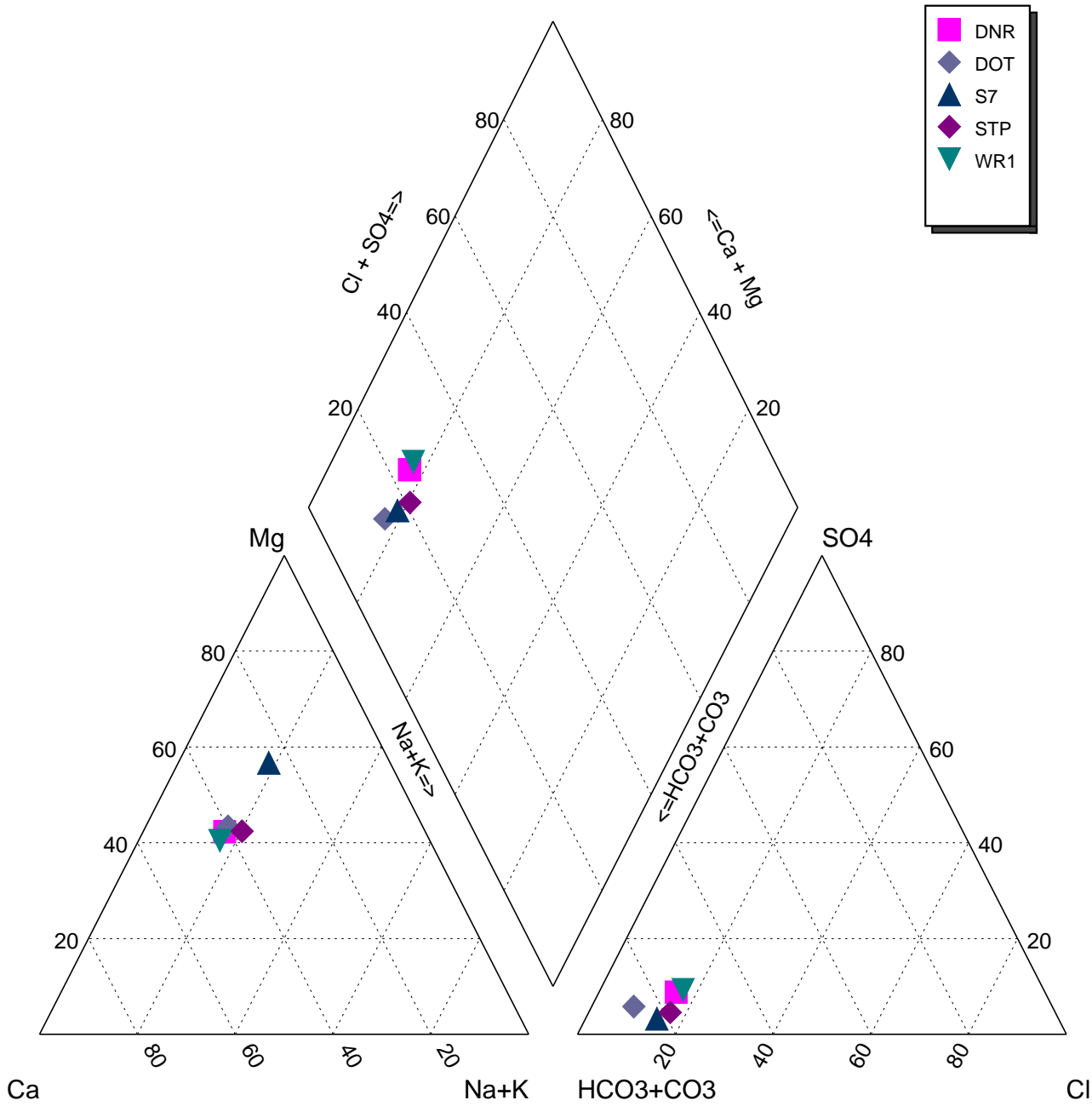
DESCRIPTION: Q1 Piper Plot - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.08
	CLIENT: Island County Public Works	DATE: January 2015



DESCRIPTION: Q1 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.08
	CLIENT: Island County Public Works	DATE: January 2015



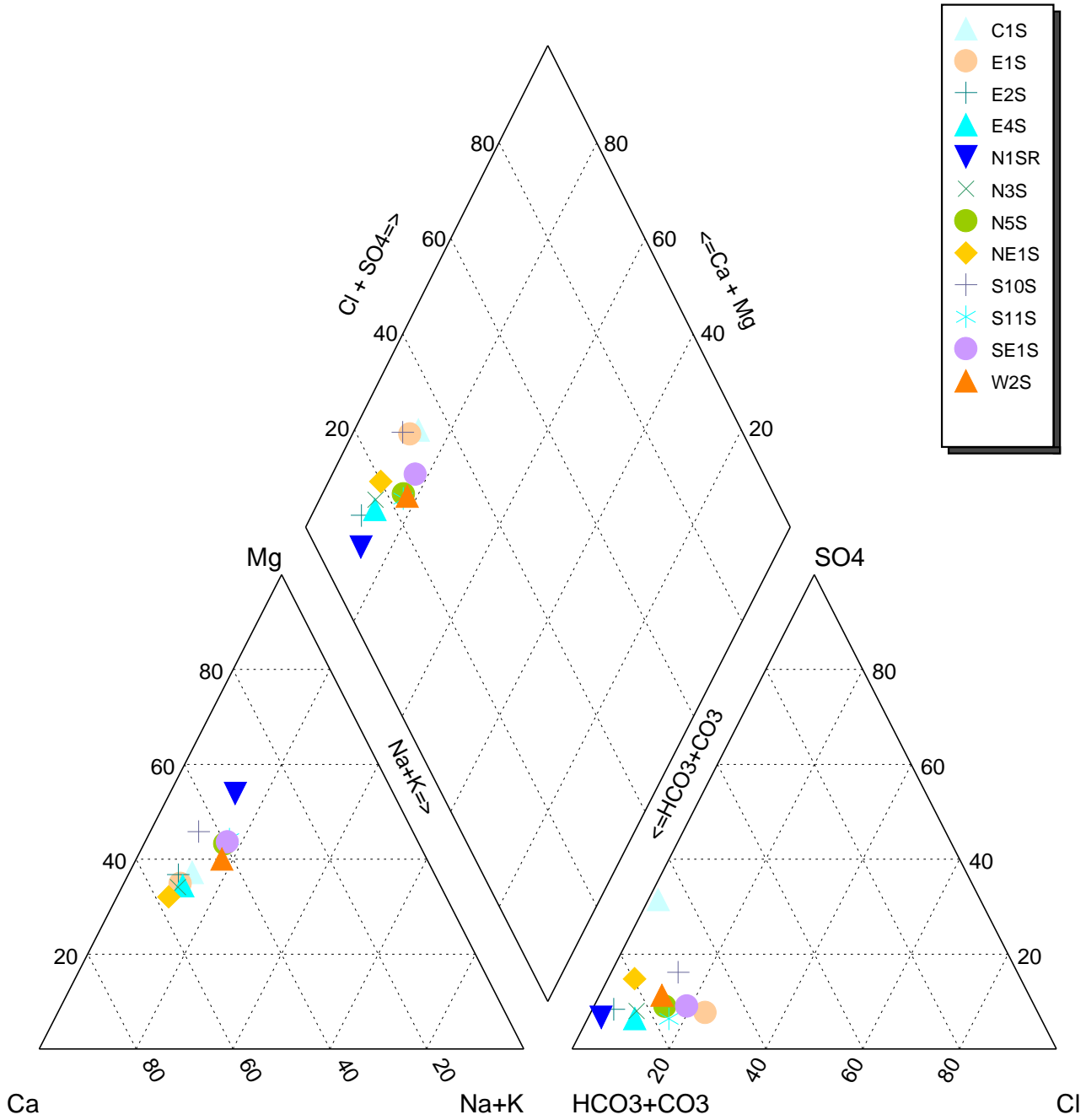
DESCRIPTION: Q1 Piper Plot - Pumping Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

CLIENT: Island County Public Works

DATE: January 2015



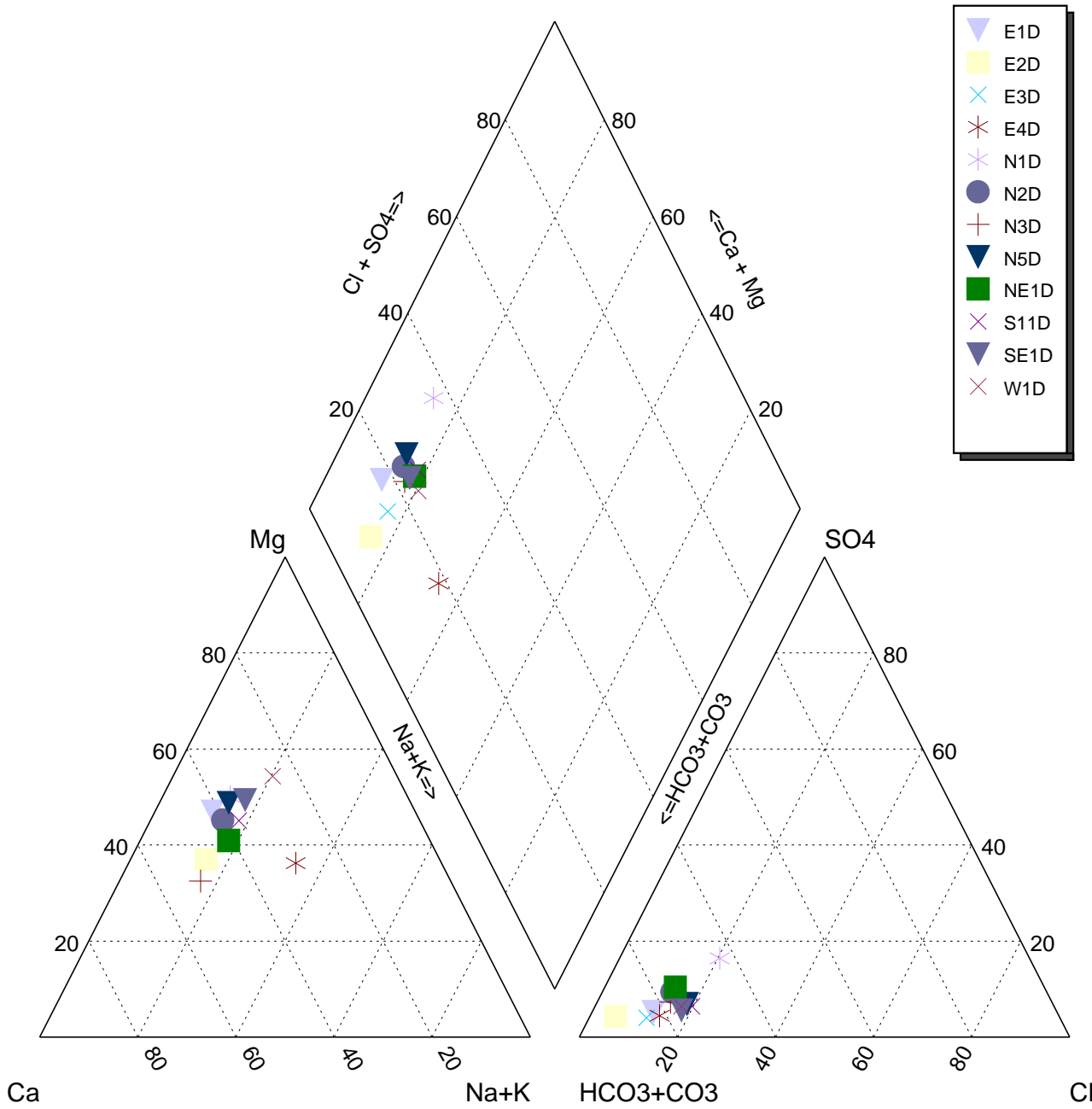
DESCRIPTION: Q2 Piper Plot - Shallow Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

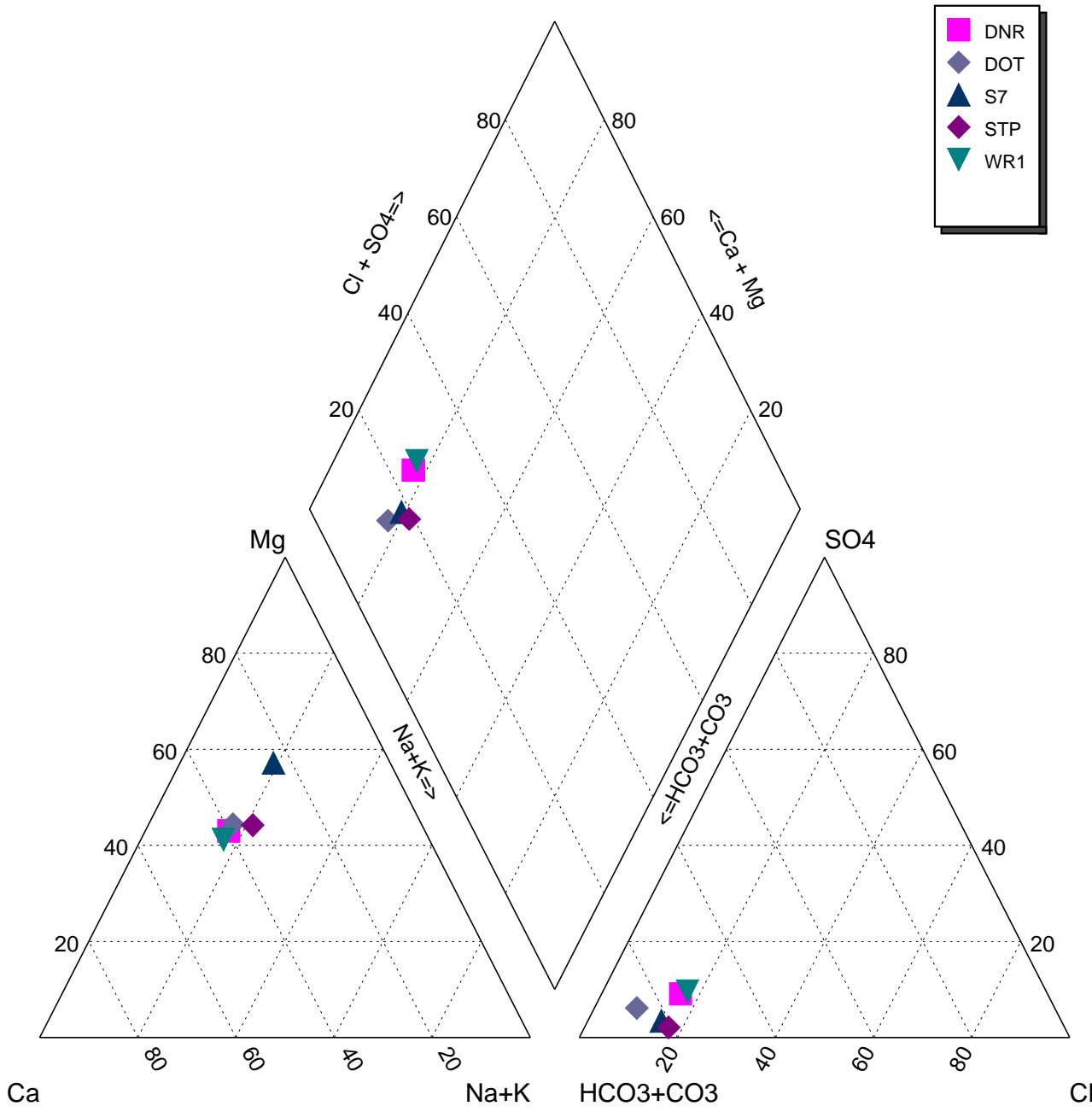
CLIENT: Island County Public Works

DATE: January 2015



DESCRIPTION: Q2 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.08
	CLIENT: Island County Public Works	DATE: January 2015



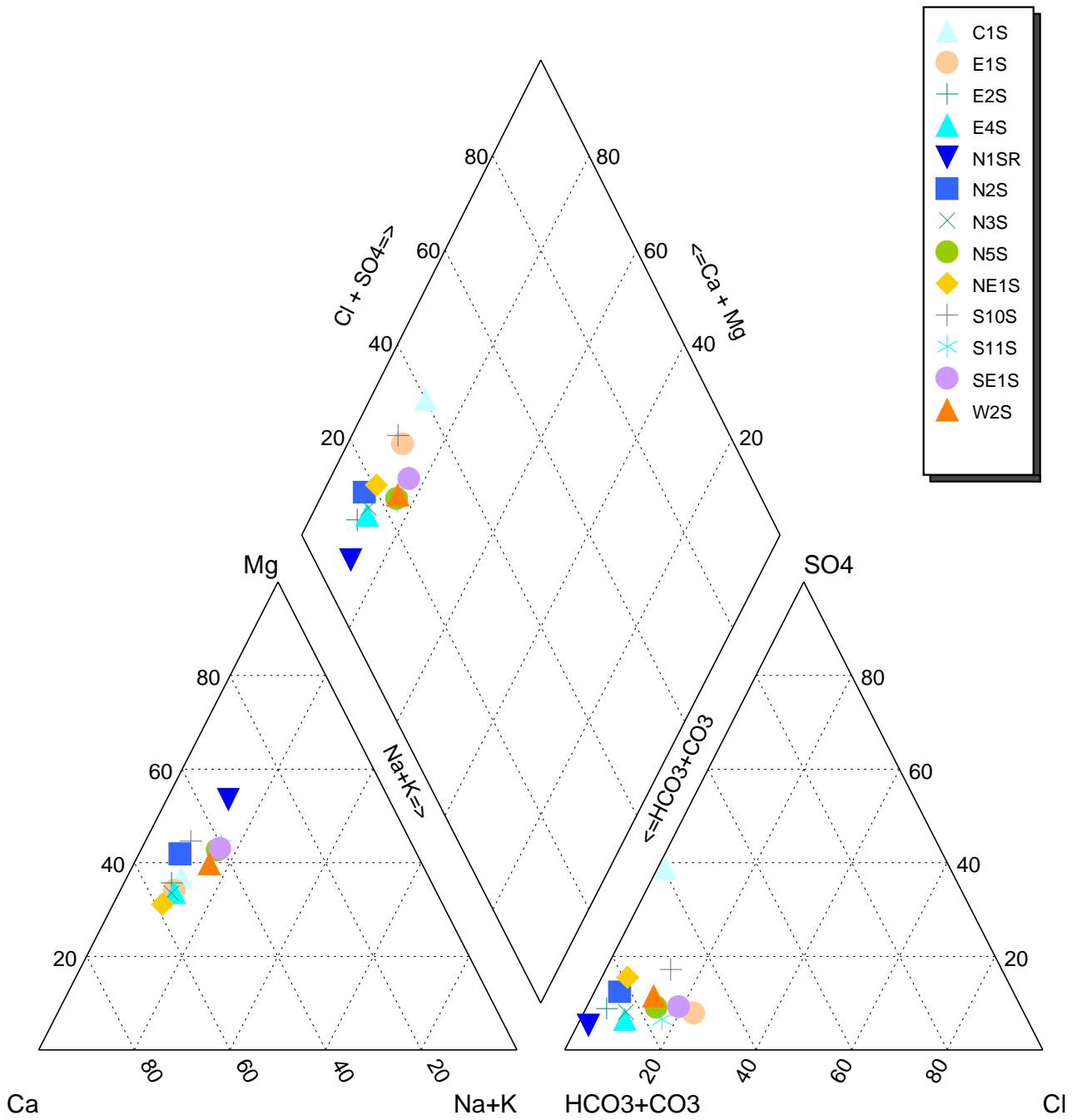
DESCRIPTION: Q2 Piper Plot - Pumping Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

CLIENT: Island County Public Works

DATE: January 2015



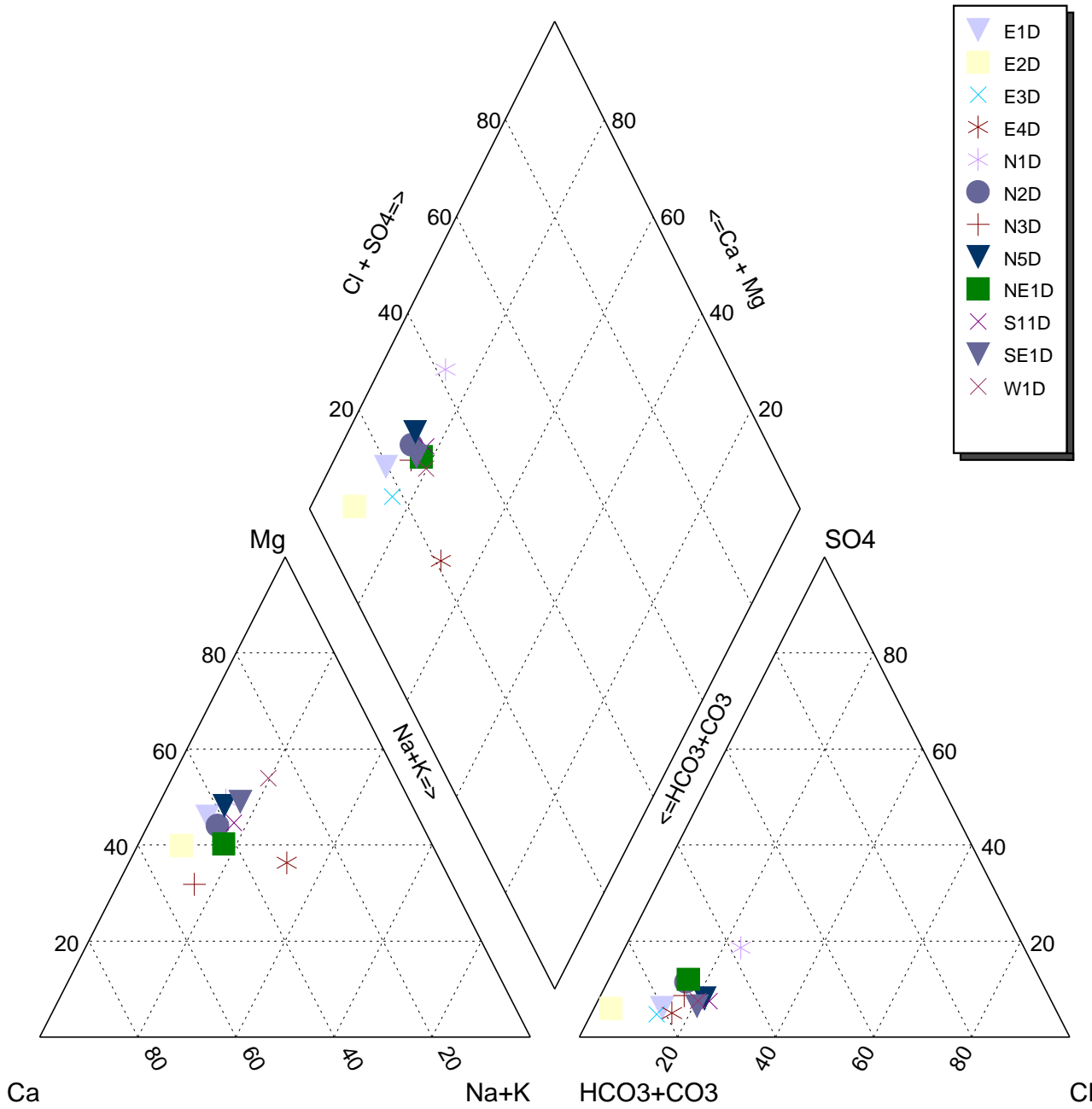
DESCRIPTION: Q3 Piper Plots - Shallow Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

CLIENT: Island County Public Works

DATE: January 2015



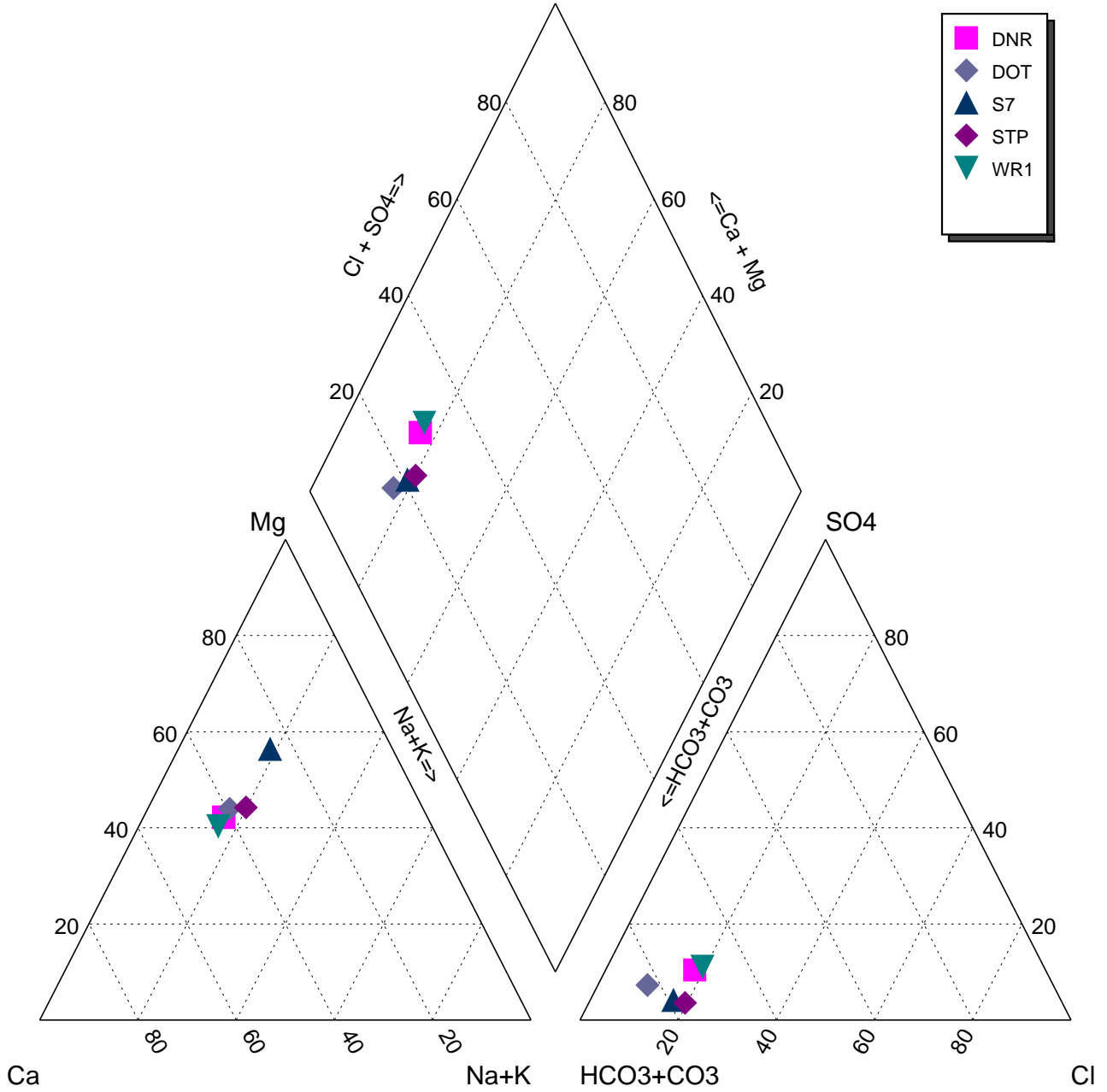
DESCRIPTION: Q3 Piper Plots - Deep Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

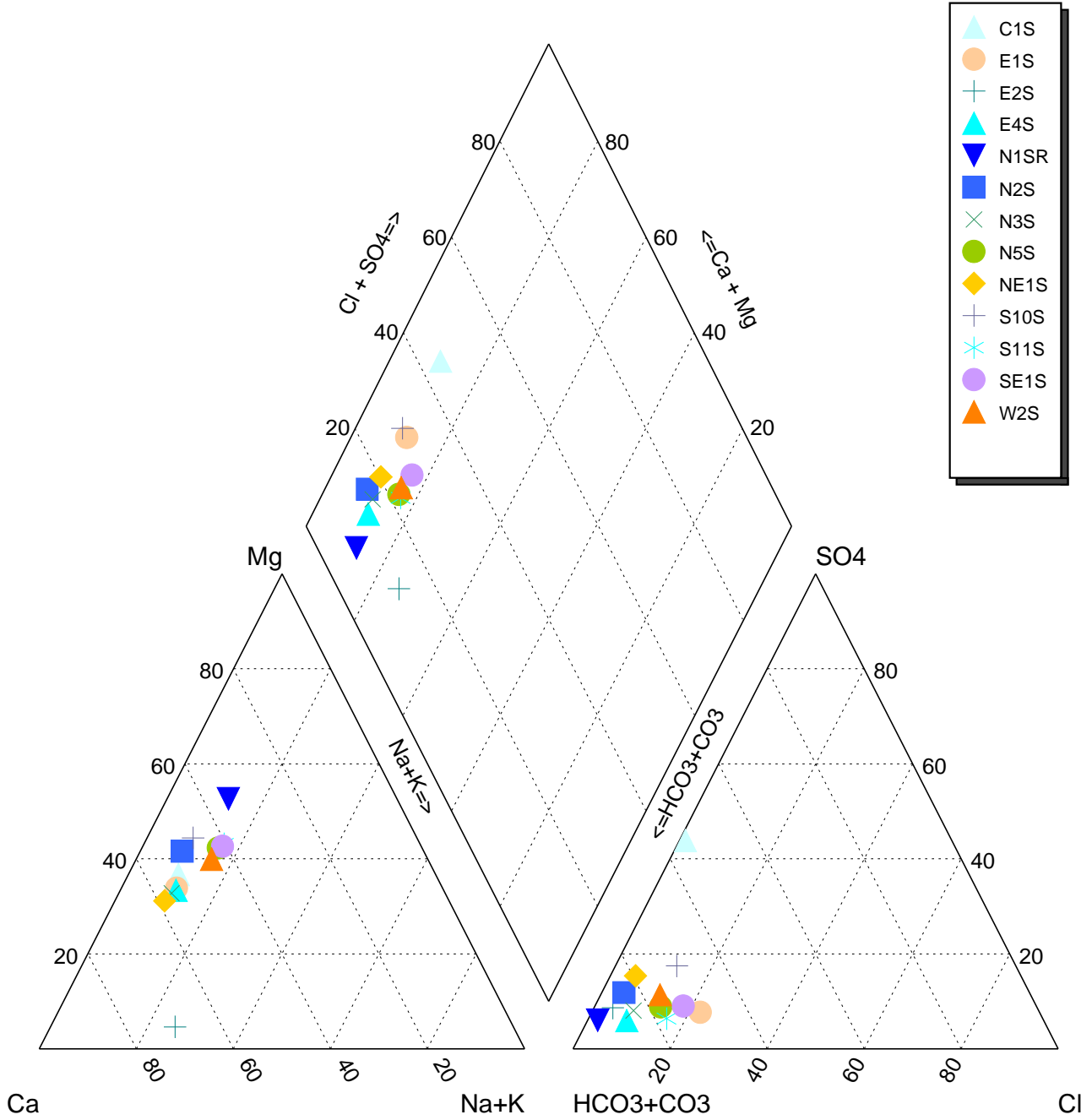
CLIENT: Island County Public Works

DATE: January 2015



DESCRIPTION: Q3 Piper Plots - Pumping Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.08
	CLIENT: Island County Public Works	DATE: January 2015



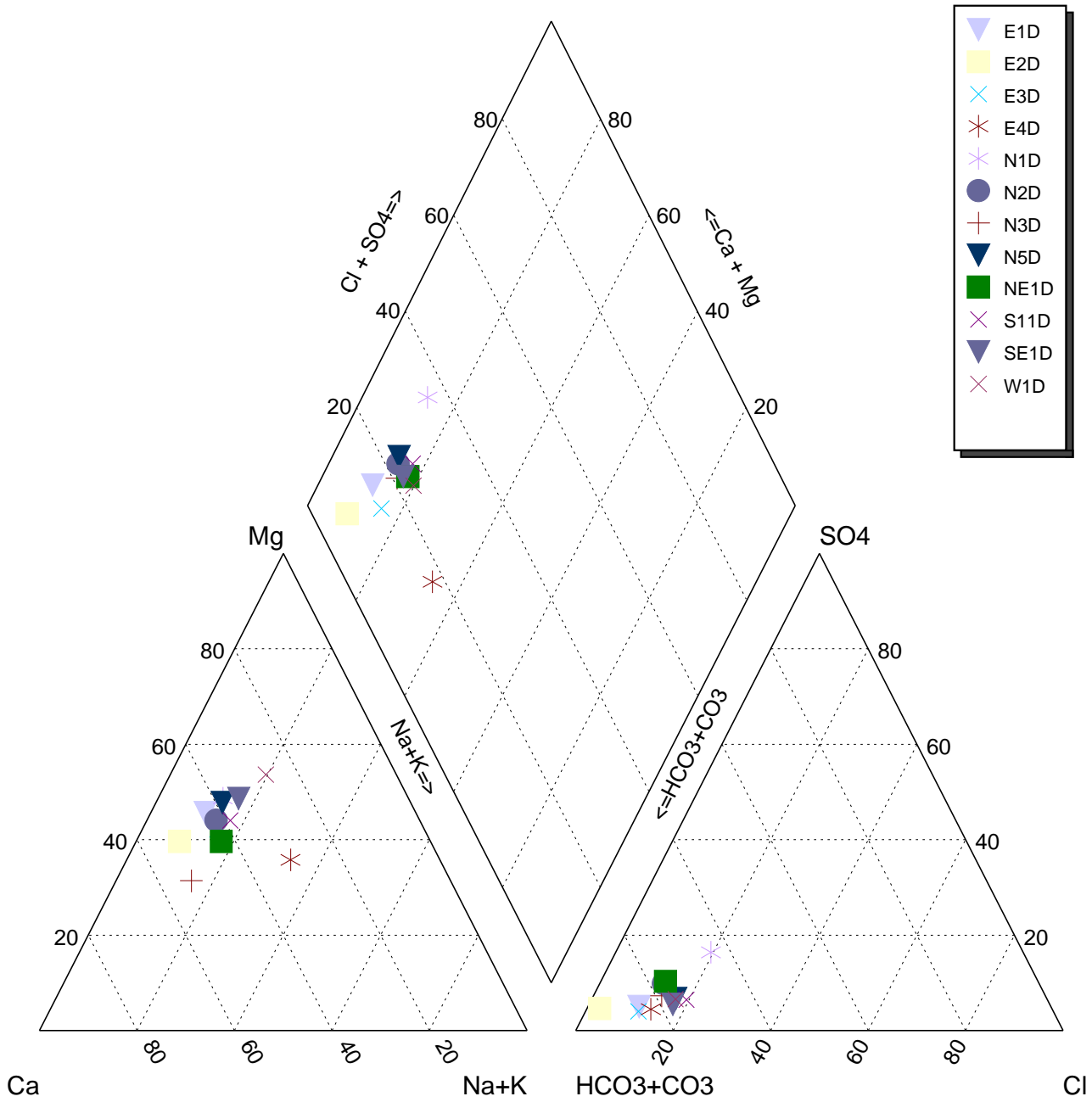
DESCRIPTION: Q4 Piper Plots - Shallow Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

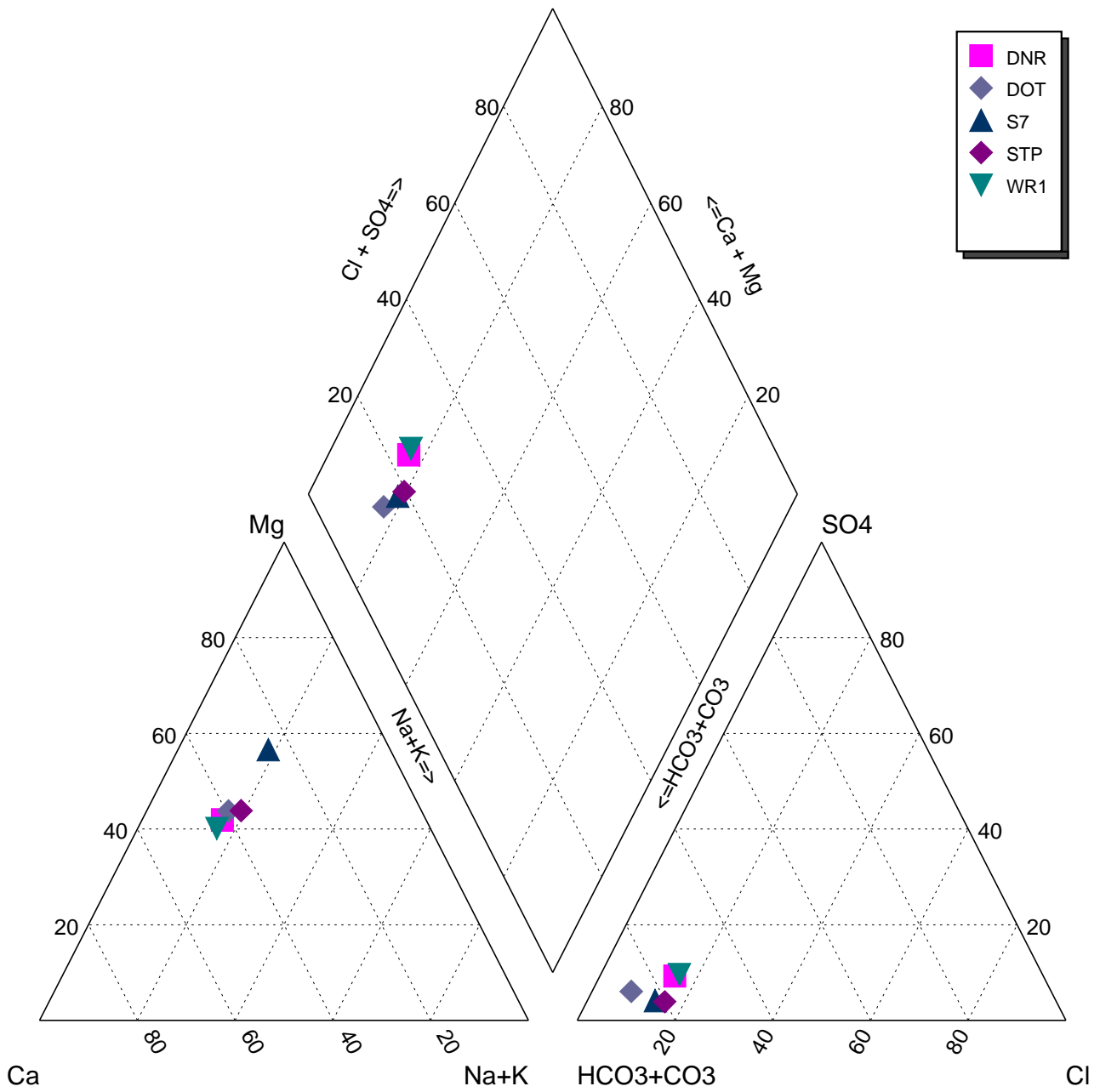
CLIENT: Island County Public Works

DATE: January 2015



DESCRIPTION: Q4 Piper Plots - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.08
	CLIENT: Island County Public Works	DATE: January 2015



DESCRIPTION: Q4 Piper Plots - Pumping Wells

PROJECT: Coupeville Solid Waste Complex

PROJECT NO: 04207033.08

CLIENT: Island County Public Works

DATE: January 2015

Cation/Anion Balance

Location C1S
 Sample Date 4/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.5	1.196184
Fe	0.03581	0.13	0
Mn	0.0364	0.012	4.368557E-04
K	0.02258	5.1	0.1304405
Ca	0.04990	102	5.090075
Mg	0.08229	46.2	3.801687
Sum of Cations			10.21882 meq/L
Cl	0.02821	7	0.1974462
SO4	0.02082	148	3.083333
NO3	0.01613	6.44	0.103871
HCO3	0.01639	397.2	6.509646
Sum of Anions			9.894297 meq/L
Balance (% difference) *			1.613503 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location C1S
Sample Date 7/8/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.6	1.200534
Fe	0.03581	0.05	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	5.2	0.1329981
Ca	0.04990	120.7	6.023255
Mg	0.08229	52	4.278955
Sum of Cations			11.63581 meq/L
Cl	0.02821	6.4	0.1805222
SO4	0.02082	211	4.395833
NO3	0.01613	5.43	8.758064E-02
HCO3	0.01639	412.8	6.765312
Sum of Anions			11.42925 meq/L
Balance (% difference) *		0.8955749 %	

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location C1S
Sample Date 10/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30	1.304928
Fe	0.03581	<0.05	<0
Mn	0.0364	0.004	1.456186E-04
K	0.02258	5.5	0.1406711
Ca	0.04990	148.9	7.430511
Mg	0.08229	62.5	5.142975
		Sum of Cations	14.01923 meq/L
Cl	0.02821	5.6	0.1579569
SO4	0.02082	271	5.645833
NO3	0.01613	6.6	0.1064516
HCO3	0.01639	432	7.079978
		Sum of Anions	12.99022 meq/L
Balance (% difference) *			3.809818 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DNR
 Sample Date 1/30/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	29.1	1.26578
Fe	0.03581	0.33	0
Mn	0.0364	0.099	3.60406E-03
K	0.02258	5.6	0.1432287
Ca	0.04990	69.1	3.448276
Mg	0.08229	43.2	3.554824
Sum of Cations			8.415713 meq/L
Cl	0.02821	52	1.466743
SO4	0.02082	39	0.8125
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	427.2	7.001311
Sum of Anions			9.280886 meq/L
Balance (% difference) *			-4.888919 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DNR
 Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30.8	1.339726
Fe	0.03581	0.41	0
Mn	0.0364	0.104	3.786083E-03
K	0.02258	5.9	0.1509017
Ca	0.04990	70	3.493188
Mg	0.08229	45.6	3.752314
Sum of Cations			8.739917 meq/L
Cl	0.02821	52.6	1.483667
SO4	0.02082	40	0.8333334
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	420	6.883312
Sum of Anions			9.200644 meq/L
Balance (% difference) *			-2.568073 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DNR
 Sample Date 7/8/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	32.2	1.400623
Fe	0.03581	0.25	0
Mn	0.0364	0.102	3.713273E-03
K	0.02258	6.2	0.1585747
Ca	0.04990	78.9	3.937323
Mg	0.08229	48.7	4.007406
Sum of Cations			9.50764 meq/L
Cl	0.02821	51.7	1.458281
SO4	0.02082	40.2	0.8375
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	420	6.883312
Sum of Anions			9.179424 meq/L
Balance (% difference) *			1.756379 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DNR
 Sample Date 10/30/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.4	1.45282
Fe	0.03581	0.5	0
Mn	0.0364	0.115	4.186534E-03
K	0.02258	6	0.1534594
Ca	0.04990	81.5	4.06707
Mg	0.08229	49.7	4.089694
Sum of Cations			9.767229 meq/L
Cl	0.02821	50.7	1.430074
SO4	0.02082	41.3	0.8604167
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	428.4	7.020978
Sum of Anions			9.313082 meq/L
Balance (% difference) *			2.380188 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DOT
 Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	22.1	0.9612972
Fe	0.03581	0.45	0
Mn	0.0364	0.126	4.586985E-03
K	0.02258	5.5	0.1406711
Ca	0.04990	52.3	2.609911
Mg	0.08229	34.6	2.847151
Sum of Cations			6.563617 meq/L
Cl	0.02821	22	0.6205451
SO4	0.02082	20	0.4166667
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	375.6	6.155647
Sum of Anions			7.193191 meq/L
Balance (% difference) *			-4.576457 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DOT
Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	23	1.000445
Fe	0.03581	0.16	0
Mn	0.0364	0.128	4.659795E-03
K	0.02258	5.9	0.1509017
Ca	0.04990	51.5	2.569989
Mg	0.08229	36.1	2.970582
		Sum of Cations	6.696577 meq/L
Cl	0.02821	22.1	0.6233658
SO4	0.02082	21.1	0.4395834
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	373.2	6.116314
		Sum of Anions	7.179596 meq/L
Balance (% difference) *			-3.480923 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DOT
 Sample Date 7/6/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	24.8	1.078741
Fe	0.03581	0.17	0
Mn	0.0364	0.141	5.133055E-03
K	0.02258	6	0.1534594
Ca	0.04990	58.3	2.909327
Mg	0.08229	39.5	3.25036
Sum of Cations			7.39702 meq/L
Cl	0.02821	21.9	0.6177244
SO4	0.02082	21.4	0.4458333
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	370.8	6.076981
Sum of Anions			7.140871 meq/L
Balance (% difference) *			1.761943 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location DOT
 Sample Date 10/30/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.8	1.122238
Fe	0.03581	0.17	0
Mn	0.0364	0.146	5.315078E-03
K	0.02258	6.1	0.156017
Ca	0.04990	60.5	3.019113
Mg	0.08229	40.6	3.340876
Sum of Cations			7.643559 meq/L
Cl	0.02821	20.8	0.5866972
SO4	0.02082	21.2	0.4416667
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	382.8	6.273647
Sum of Anions			7.303624 meq/L
Balance (% difference) *			2.274243 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1D
Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	40.6	1.766003
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.04	1.456186E- 03
K	0.02258	8	0.2046125
Ca	0.04990	150.1	7.490395
Mg	0.08229	98.1	8.072412
Sum of Cations			17.53488 meq/L
Cl	0.02821	88	2.48218
SO4	0.02082	47	0.9791667
NO3	0.01613	0.5	8.064516E- 03
HCO3	0.01639	970.8	15.91028
Sum of Anions			19.37969 meq/L
Balance (% difference) *			-4.997523 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	42.1	1.831249
Fe	0.03581	0.005	0
Mn	0.0364	0.037	1.346972E-03
K	0.02258	8.3	0.2122854
Ca	0.04990	144.6	7.21593
Mg	0.08229	99.9	8.220531
Sum of Cations			17.48134 meq/L
Cl	0.02821	84.1	2.372175
SO4	0.02082	48.2	1.004167
NO3	0.01613	0.27	4.354839E-03
HCO3	0.01639	955.2	15.65462
Sum of Anions			19.03531 meq/L
Balance (% difference) *			-4.255516 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1D
 Sample Date 7/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	43.8	1.905195
Fe	0.03581	0.008	0
Mn	0.0364	0.038	1.383376E-03
K	0.02258	8.6	0.2199584
Ca	0.04990	163.1	8.13913
Mg	0.08229	106	8.722485
Sum of Cations			18.98815 meq/L
Cl	0.02821	81.1	2.287555
SO4	0.02082	48.5	1.010417
NO3	0.01613	0.17	2.741935E-03
HCO3	0.01639	968.4	15.87095
Sum of Anions			19.17166 meq/L
Balance (% difference) *			-0.4809031 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1D
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	47	2.044388
Fe	0.03581	<0.05	<0
Mn	0.0364	0.042	1.528995E-03
K	0.02258	8.5	0.2174008
Ca	0.04990	174.3	8.698039
Mg	0.08229	111.7	9.191525
Sum of Cations			20.15288 meq/L
Cl	0.02821	74.5	2.101391
SO4	0.02082	48.1	1.002083
NO3	0.01613	0.16	2.580645E-03
HCO3	0.01639	1032	16.91328
Sum of Anions			20.01933 meq/L
Balance (% difference) *			0.3324358 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1S
 Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.6	1.113539
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.003	1.092139E-04
K	0.02258	5.7	0.1457864
Ca	0.04990	122.5	6.11308
Mg	0.08229	46.3	3.809916
Sum of Cations			11.18243 meq/L
Cl	0.02821	94	2.65142
SO4	0.02082	41	0.8541667
NO3	0.01613	12	0.1935484
HCO3	0.01639	486	7.964975
Sum of Anions			11.66411 meq/L
Balance (% difference) *			-2.108328 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1S
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.3	1.187485
Fe	0.03581	<0.001 2	<0
Mn	0.0364	<9.38E -06	<3.414756E -07
K	0.02258	6.3	0.1611323
Ca	0.04990	123.8	6.177953
Mg	0.08229	49	4.032092
Sum of Cations			11.55866 meq/L
Cl	0.02821	94.3	2.659882
SO4	0.02082	41.5	0.8645834
NO3	0.01613	11.8	0.1903226
HCO3	0.01639	471.6	7.728976
Sum of Anions			11.44376 meq/L
Balance (% difference) *		0.4995068 %	

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1S
Sample Date 7/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	28	1.217933
Fe	0.03581	0.004	0
Mn	0.0364	0.0007	2.548325E-05
K	0.02258	6.3	0.1611323
Ca	0.04990	133.6	6.667
Mg	0.08229	50.5	4.155523
		Sum of Cations	12.20161 meq/L
Cl	0.02821	90.8	2.561159
SO4	0.02082	41.7	0.86875
NO3	0.01613	11.9	0.1919355
HCO3	0.01639	469.2	7.689642
		Sum of Anions	11.31149 meq/L
Balance (% difference) *			3.785669 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E1S
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	29.4	1.27883
Fe	0.03581	<0.05	<0
Mn	0.0364	0.026	9.465208E-04
K	0.02258	6.2	0.1585747
Ca	0.04990	139	6.936474
Mg	0.08229	51.9	4.270726
Sum of Cations			12.64555 meq/L
Cl	0.02821	87.5	2.468077
SO4	0.02082	40.7	0.8479167
NO3	0.01613	12.1	0.1951613
HCO3	0.01639	470.4	7.70931
Sum of Anions			11.22046 meq/L
Balance (% difference) *			5.971198 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2D
 Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	36.2	1.574613
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.059	2.147874E- 03
K	0.02258	9	0.230189
Ca	0.04990	218	10.87879
Mg	0.08229	102.5	8.434479
Sum of Cations			21.12022 meq/L
Cl	0.02821	22	0.6205451
SO4	0.02082	49	1.020833
NO3	0.01613	2.75	4.435484E- 02
HCO3	0.01639	1260	20.64993
Sum of Anions			22.33567 meq/L
Balance (% difference) *			-2.796979 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2D
 Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	26.1	1.135288
Fe	0.03581	0.88	0
Mn	0.0364	0.179	6.516431E-03
K	0.02258	5.3	0.1355558
Ca	0.04990	78.6	3.922352
Mg	0.08229	37.1	3.05287
Sum of Cations			8.252581 meq/L
Cl	0.02821	16	0.4513055
SO4	0.02082	17.7	0.36875
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	474	7.76831
Sum of Anions			8.588696 meq/L
Balance (% difference) *			-1.995786 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2D
 Sample Date 7/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	41	1.783402
Fe	0.03581	0.03	0
Mn	0.0364	0.057	2.075065E-03
K	0.02258	9.4	0.2404197
Ca	0.04990	232.2	11.58741
Mg	0.08229	109.8	9.035178
Sum of Cations			22.64848 meq/L
Cl	0.02821	23.8	0.6713169
SO4	0.02082	54.4	1.133333
NO3	0.01613	2.67	4.306452E-02
HCO3	0.01639	1272	20.8466
Sum of Anions			22.69431 meq/L
Balance (% difference) *			-0.1010866 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2D
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	40.8	1.774702
Fe	0.03581	<0.05	<0
Mn	0.0364	0.068	2.475516E-03
K	0.02258	8.8	0.2250737
Ca	0.04990	230.1	11.48261
Mg	0.08229	107.3	8.829459
Sum of Cations			22.31432 meq/L
Cl	0.02821	24.4	0.6882409
SO4	0.02082	57.5	1.197917
NO3	0.01613	3.28	5.290322E-02
HCO3	0.01639	1476	24.18992
Sum of Anions			26.12898 meq/L
Balance (% difference) *			-7.874489 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2S
 Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30.5	1.326677
Fe	0.03581	0.14	0
Mn	0.0364	0.059	2.147874E-03
K	0.02258	7.4	0.1892665
Ca	0.04990	168.3	8.398623
Mg	0.08229	67.9	5.587328
Sum of Cations			15.50404 meq/L
Cl	0.02821	25	0.7051648
SO4	0.02082	60	1.25
NO3	0.01613	6.27	0.101129
HCO3	0.01639	853.2	13.98296
Sum of Anions			16.03925 meq/L
Balance (% difference) *			-1.696737 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2S
Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	31.7	1.378874
Fe	0.03581	0.03	0
Mn	0.0364	0.453	0.0164913
K	0.02258	7.8	0.1994972
Ca	0.04990	161.9	8.079246
Mg	0.08229	68.2	5.612014
		Sum of Cations	15.28612 meq/L
Cl	0.02821	24.5	0.6910616
SO4	0.02082	62.1	1.29375
NO3	0.01613	6.65	0.1072581
HCO3	0.01639	823.2	13.49129
		Sum of Anions	15.58336 meq/L
Balance (% difference) *			-0.9628905 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2S
Sample Date 7/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	32.3	1.404973
Fe	0.03581	0.14	0
Mn	0.0364	0.477	1.736501E- 02
K	0.02258	7.5	0.1918242
Ca	0.04990	174.7	8.718
Mg	0.08229	69.5	5.718988
		Sum of Cations	16.05115 meq/L
Cl	0.02821	23.9	0.6741376
SO4	0.02082	65	1.354167
NO3	0.01613	8.01	0.1291935
HCO3	0.01639	812.4	13.31429
		Sum of Anions	15.47179 meq/L
Balance (% difference) *			1.837903 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E2S
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.9	1.474569
Fe	0.03581	<0.05	<0
Mn	0.0364	0.396	1.441624E-02
K	0.02258	71	1.815936
Ca	0.04990	179.1	8.937572
Mg	0.08229	7.2	0.5924706
Sum of Cations			12.83497 meq/L
Cl	0.02821	21.8	0.6149037
SO4	0.02082	64.9	1.352083
NO3	0.01613	8.32	0.1341935
HCO3	0.01639	837.6	13.72729
Sum of Anions			15.82847 meq/L
Balance (% difference) *			-10.44364 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E3D
 Sample Date 1/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.1	1.09179
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.234	8.518687E-03
K	0.02258	6.4	0.16369
Ca	0.04990	67.8	3.383403
Mg	0.08229	42.3	3.480765
Sum of Cations			8.128166 meq/L
Cl	0.02821	34	0.9590242
SO4	0.02082	16	0.3333333
NO3	0.01613	<0.020 6	<3.322581E-04
HCO3	0.01639	424.8	6.961978
Sum of Anions			8.254668 meq/L
Balance (% difference) *			-0.7721621 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E3D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.5	1.109189
Fe	0.03581	0.03	0
Mn	0.0364	0.259	9.428803E-03
K	0.02258	6.5	0.1662476
Ca	0.04990	63.8	3.183792
Mg	0.08229	41.4	3.406707
Sum of Cations			7.875364 meq/L
Cl	0.02821	33.7	0.9505622
SO4	0.02082	15.7	0.3270833
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	418.8	6.863646
Sum of Anions			8.141623 meq/L
Balance (% difference) *			-1.662358 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E3D
 Sample Date 7/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.6	1.113539
Fe	0.03581	0.02	0
Mn	0.0364	0.241	8.773519E-03
K	0.02258	6.4	0.16369
Ca	0.04990	69.1	3.448276
Mg	0.08229	42.3	3.480765
Sum of Cations			8.215044 meq/L
Cl	0.02821	33	0.9308176
SO4	0.02082	15.9	0.33125
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	417.6	6.843978
Sum of Anions			8.106379 meq/L
Balance (% difference) *			0.6657843 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E3D
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.2	1.183135
Fe	0.03581	<0.05	<0
Mn	0.0364	0.253	9.210374E-03
K	0.02258	6.3	0.1611323
Ca	0.04990	74	3.692799
Mg	0.08229	44.6	3.670027
Sum of Cations			8.716304 meq/L
Cl	0.02821	31.5	0.8885077
SO4	0.02082	15.8	0.3291667
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	426	6.981645
Sum of Anions			8.200933 meq/L
Balance (% difference) *			3.046427 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4D
 Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	40.7	1.770353
Fe	0.03581	0.74	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	9.8	0.2506503
Ca	0.04990	33.1	1.651779
Mg	0.08229	24.3	1.999588
Sum of Cations			5.672443 meq/L
Cl	0.02821	31	0.8744044
SO4	0.02082	11	0.2291667
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	288	4.719985
Sum of Anions			5.823888 meq/L
Balance (% difference) *			-1.317333 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	39.4	1.713806
Fe	0.03581	0.7	0
Mn	0.0364	0.074	2.693944E-03
K	0.02258	10.2	0.2608809
Ca	0.04990	34.5	1.721643
Mg	0.08229	25.5	2.098334
Sum of Cations			5.797357 meq/L
Cl	0.02821	29.8	0.8405565
SO4	0.02082	12.6	0.2625
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	295.2	4.837985
Sum of Anions			5.941374 meq/L
Balance (% difference) *			-1.226851 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4D
 Sample Date 7/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	39.2	1.705106
Fe	0.03581	1.36	0
Mn	0.0364	0.084	3.05799E-03
K	0.02258	10.1	0.2583233
Ca	0.04990	38.5	1.921254
Mg	0.08229	26.9	2.213536
Sum of Cations			6.101277 meq/L
Cl	0.02821	29.5	0.8320946
SO4	0.02082	12.2	0.2541667
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	292.8	4.798652
Sum of Anions			5.885245 meq/L
Balance (% difference) *			1.802291 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4D
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	41.3	1.796451
Fe	0.03581	0.46	0
Mn	0.0364	0.075	2.730348E-03
K	0.02258	9.8	0.2506503
Ca	0.04990	37.4	1.866361
Mg	0.08229	26.5	2.180621
Sum of Cations			6.096814 meq/L
Cl	0.02821	27.8	0.7841433
SO4	0.02082	12.7	0.2645833
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	298.8	4.896985
Sum of Anions			5.947325 meq/L
Balance (% difference) *			1.241176 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4S
Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	29.4	1.27883
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.484	1.761985E- 02
K	0.02258	5.9	0.1509017
Ca	0.04990	132.4	6.607116
Mg	0.08229	49.4	4.065007
Sum of Cations			12.11947 meq/L
Cl	0.02821	43	1.212884
SO4	0.02082	37	0.7708334
NO3	0.01613	0.45	7.258064E- 03
HCO3	0.01639	636	10.4233
Sum of Anions			12.41428 meq/L
Balance (% difference) *			-1.201617 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4S
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	29.9	1.300578
Fe	0.03581	<0.001 2	<0
Mn	0.0364	<9.38E -06	<3.414756E -07
K	0.02258	5.9	0.1509017
Ca	0.04990	124.4	6.207895
Mg	0.08229	48.8	4.015635
Sum of Cations			11.67501 meq/L
Cl	0.02821	43.5	1.226987
SO4	0.02082	38.5	0.8020834
NO3	0.01613	0.5	8.064516E- 03
HCO3	0.01639	643.2	10.5413
Sum of Anions			12.57843 meq/L
Balance (% difference) *			-3.724936 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4S
 Sample Date 7/8/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30.9	1.344076
Fe	0.03581	0.01	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	5.8	0.1483441
Ca	0.04990	141.8	7.076202
Mg	0.08229	52.7	4.336556
Sum of Cations			12.90525 meq/L
Cl	0.02821	41.4	1.167753
SO4	0.02082	39.4	0.8208334
NO3	0.01613	0.5	8.064516E-03
HCO3	0.01639	646.8	10.6003
Sum of Anions			12.59695 meq/L
Balance (% difference) *			1.208912 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location E4S
Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	32.2	1.400623
Fe	0.03581	<0.05	<0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	6.1	0.156017
Ca	0.04990	149.4	7.455462
Mg	0.08229	54.9	4.517589
		Sum of Cations	13.52976 meq/L
Cl	0.02821	37.9	1.06903
SO4	0.02082	37.4	0.7791667
NO3	0.01613	0.6	9.677419E-03
HCO3	0.01639	690	11.3083
		Sum of Anions	13.16617 meq/L
Balance (% difference) *			1.361976 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	20.2	0.8786517
Fe	0.03581	0.47	0
Mn	0.0364	0.154	5.606315E-03
K	0.02258	5.9	0.1509017
Ca	0.04990	63.6	3.173811
Mg	0.08229	24.6	2.024275
Sum of Cations			6.233245 meq/L
Cl	0.02821	35.4	0.9985135
SO4	0.02082	23.2	0.4833333
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	316.8	5.191984
Sum of Anions			6.674163 meq/L
Balance (% difference) *			-3.416003 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3D
 Sample Date 7/7/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	21.3	0.926499
Fe	0.03581	0.17	0
Mn	0.0364	0.065	2.366302E-03
K	0.02258	5.6	0.1432287
Ca	0.04990	72.2	3.602974
Mg	0.08229	26.5	2.180621
Sum of Cations			6.855689 meq/L
Cl	0.02821	35	0.9872308
SO4	0.02082	24	0.5
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	314.4	5.152651
Sum of Anions			6.640214 meq/L
Balance (% difference) *			1.596596 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3D
 Sample Date 10/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	21.8	0.9482478
Fe	0.03581	0.16	0
Mn	0.0364	0.057	2.075065E-03
K	0.02258	5.7	0.1457864
Ca	0.04990	75.4	3.762663
Mg	0.08229	27	2.221765
Sum of Cations			7.080538 meq/L
Cl	0.02821	33.5	0.9449209
SO4	0.02082	23.5	0.4895833
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	325.2	5.32965
Sum of Anions			6.765768 meq/L
Balance (% difference) *			2.273316 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3S
 Sample Date 1/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27	1.174435
Fe	0.03581	0.2	0
Mn	0.0364	0.045	1.638209E-03
K	0.02258	6.2	0.1585747
Ca	0.04990	140.8	7.026299
Mg	0.08229	50	4.11438
Sum of Cations			12.47533 meq/L
Cl	0.02821	37	1.043644
SO4	0.02082	41	0.8541667
NO3	0.01613	5.14	8.290322E-02
HCO3	0.01639	650.4	10.6593
Sum of Anions			12.64001 meq/L
Balance (% difference) *			-0.6557196 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3S
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.6	1.200534
Fe	0.03581	<0.08	<0
Mn	0.0364	0.003	1.092139E-04
K	0.02258	6.2	0.1585747
Ca	0.04990	128	6.387545
Mg	0.08229	48.8	4.015635
Sum of Cations			11.7624 meq/L
Cl	0.02821	38.5	1.085954
SO4	0.02082	44.6	0.9291667
NO3	0.01613	5.55	8.951613E-02
HCO3	0.01639	586.8	9.61697
Sum of Anions			11.72161 meq/L
Balance (% difference) *			0.1736991 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3S
 Sample Date 7/7/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.7	1.204884
Fe	0.03581	0.03	0
Mn	0.0364	0.003	1.092139E-04
K	0.02258	5.8	0.1483441
Ca	0.04990	136.3	6.801737
Mg	0.08229	49.9	4.106151
Sum of Cations			12.26123 meq/L
Cl	0.02821	36	1.015437
SO4	0.02082	45	0.9375
NO3	0.01613	6.02	9.709677E-02
HCO3	0.01639	586.8	9.61697
Sum of Anions			11.667 meq/L
Balance (% difference) *			2.483352 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N3S
 Sample Date 10/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	28.5	1.239682
Fe	0.03581	0.05	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	5.9	0.1509017
Ca	0.04990	144.6	7.21593
Mg	0.08229	50.9	4.188439
Sum of Cations			12.79502 meq/L
Cl	0.02821	34.4	0.9703069
SO4	0.02082	44.2	0.9208333
NO3	0.01613	6.06	9.774193E-02
HCO3	0.01639	583.2	9.55797
Sum of Anions			11.54685 meq/L
Balance (% difference) *			5.127676 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5D
 Sample Date 1/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	43.8	1.905195
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.001	3.640465E-05
K	0.02258	10.1	0.2583233
Ca	0.04990	123.2	6.148012
Mg	0.08229	94.5	7.776178
Sum of Cations			16.08774 meq/L
Cl	0.02821	107	3.018106
SO4	0.02082	52	1.083333
NO3	0.01613	<0.020 6	<3.322581E-04
HCO3	0.01639	758.4	12.42929
Sum of Anions			16.53106 meq/L
Balance (% difference) *			-1.359097 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	45.2	1.966092
Fe	0.03581	0.03	0
Mn	0.0364	0.235	8.555091E-03
K	0.02258	10.5	0.2685539
Ca	0.04990	117.9	5.883527
Mg	0.08229	94.1	7.743263
Sum of Cations			15.86999 meq/L
Cl	0.02821	108	3.046312
SO4	0.02082	54.7	1.139583
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	747.6	12.2523
Sum of Anions			16.43852 meq/L
Balance (% difference) *			-1.759694 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5D
 Sample Date 7/6/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	45.9	1.99654
Fe	0.03581	0.03	0
Mn	0.0364	0.251	9.137565E-03
K	0.02258	10.2	0.2608809
Ca	0.04990	127.8	6.377564
Mg	0.08229	97.7	8.039497
Sum of Cations			16.68362 meq/L
Cl	0.02821	109	3.074519
SO4	0.02082	55.4	1.154167
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	738	12.09496
Sum of Anions			16.32398 meq/L
Balance (% difference) *			1.089568 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5D
 Sample Date 10/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	48	2.087885
Fe	0.03581	<0.05	<0
Mn	0.0364	0.265	9.64723E-03
K	0.02258	10.1	0.2583233
Ca	0.04990	133.3	6.652029
Mg	0.08229	99.9	8.220531
Sum of Cations			17.22841 meq/L
Cl	0.02821	105	2.961692
SO4	0.02082	55.9	1.164583
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	802.8	13.15696
Sum of Anions			17.28485 meq/L
Balance (% difference) *			-0.1635158 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5S
 Sample Date 1/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	26	1.130938
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.021	7.644975E-04
K	0.02258	6.5	0.1662476
Ca	0.04990	67.1	3.348471
Mg	0.08229	42	3.456079
Sum of Cations			8.1025 meq/L
Cl	0.02821	42	1.184677
SO4	0.02082	34	0.7083334
NO3	0.01613	<0.020 6	<3.322581E-04
HCO3	0.01639	385.2	6.31298
Sum of Anions			8.206323 meq/L
Balance (% difference) *			-0.6366045 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5S
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.5	1.109189
Fe	0.03581	0.007	0
Mn	0.0364	<9.38E	<3.414756E
		-06	-07
K	0.02258	6.5	0.1662476
Ca	0.04990	61.5	3.069016
Mg	0.08229	40.2	3.307961
Sum of Cations			7.652414 meq/L
Cl	0.02821	42	1.184677
SO4	0.02082	34.8	0.725
NO3	0.01613	<0.020	<3.322581E
		6	-04
HCO3	0.01639	375.6	6.155647
Sum of Anions			8.065657 meq/L
Balance (% difference) *			-2.629094 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5S
 Sample Date 7/6/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	26.5	1.152687
Fe	0.03581	0.04	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	6.2	0.1585747
Ca	0.04990	68.1	3.398373
Mg	0.08229	42.7	3.51368
Sum of Cations			8.223388 meq/L
Cl	0.02821	41.4	1.167753
SO4	0.02082	35.1	0.73125
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	373.2	6.116314
Sum of Anions			8.01565 meq/L
Balance (% difference) *			1.27925 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location N5S
 Sample Date 10/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.3	1.187485
Fe	0.03581	<0.05	<0
Mn	0.0364	0.001	3.640465E-05
K	0.02258	6.3	0.1611323
Ca	0.04990	71.8	3.583014
Mg	0.08229	43.9	3.612426
Sum of Cations			8.544092 meq/L
Cl	0.02821	38.9	1.097237
SO4	0.02082	34.1	0.7104167
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	380.4	6.234314
Sum of Anions			8.04358 meq/L
Balance (% difference) *			3.017374 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1D
 Sample Date 1/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	25.3	1.100489
Fe	0.03581	0.06	0
Mn	0.0364	0.013	4.732604E-04
K	0.02258	5.9	0.1509017
Ca	0.04990	62	3.093967
Mg	0.08229	35.5	2.92121
Sum of Cations			7.267041 meq/L
Cl	0.02821	37	1.043644
SO4	0.02082	35	0.7291667
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	334.8	5.486983
Sum of Anions			7.260126 meq/L
Balance (% difference) *			4.760439E-02 %

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location NE1D
 Sample Date 4/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	26.2	1.139637
Fe	0.03581	0.04	0
Mn	0.0364	0.014	5.09665E-04
K	0.02258	6.2	0.1585747
Ca	0.04990	59	2.944259
Mg	0.08229	35.7	2.937667
Sum of Cations			7.180648 meq/L
Cl	0.02821	37	1.043644
SO4	0.02082	36	0.75
NO3	0.01613	0.02	3.225806E-04
HCO3	0.01639	331.2	5.427983
Sum of Anions			7.22195 meq/L
Balance (% difference) *			-0.2867691 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1D
 Sample Date 7/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	26.2	1.139637
Fe	0.03581	0.08	0
Mn	0.0364	0.016	5.824743E-04
K	0.02258	6.1	0.156017
Ca	0.04990	63.1	3.14886
Mg	0.08229	36.3	2.98704
Sum of Cations			7.432137 meq/L
Cl	0.02821	36.5	1.029541
SO4	0.02082	36.6	0.7625
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	333.6	5.467316
Sum of Anions			7.259689 meq/L
Balance (% difference) *			1.173766 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1D
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.1	1.178785
Fe	0.03581	0.29	0
Mn	0.0364	0.023	8.373068E-04
K	0.02258	5.8	0.1483441
Ca	0.04990	65.1	3.248665
Mg	0.08229	36.4	2.995269
Sum of Cations			7.5719 meq/L
Cl	0.02821	34.4	0.9703069
SO4	0.02082	36.1	0.7520833
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	340.8	5.585316
Sum of Anions			7.309319 meq/L
Balance (% difference) *			1.764512 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1S
 Sample Date 1/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	16.2	0.7046613
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.003	1.092139E- 04
K	0.02258	5	0.1278828
Ca	0.04990	97.7	4.875493
Mg	0.08229	31.7	2.608517
Sum of Cations			8.316663 meq/L
Cl	0.02821	16	0.4513055
SO4	0.02082	55	1.145833
NO3	0.01613	5.75	9.274194E- 02
HCO3	0.01639	403.2	6.607979
Sum of Anions			8.29786 meq/L
Balance (% difference) *			0.1131699 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1S
Sample Date 4/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	17.1	0.7438091
Fe	0.03581	0.09	0
Mn	0.0364	0.019	6.916882E-04
K	0.02258	5.4	0.1381134
Ca	0.04990	94.5	4.715805
Mg	0.08229	32.1	2.641432
		Sum of Cations	8.239851 meq/L
Cl	0.02821	15.4	0.4343815
SO4	0.02082	56.6	1.179167
NO3	0.01613	6.44	0.103871
HCO3	0.01639	386.4	6.332647
		Sum of Anions	8.050066 meq/L
Balance (% difference) *			1.165046 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1S
 Sample Date 7/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	17.6	0.7655579
Fe	0.03581	0.05	0
Mn	0.0364	0.009	3.276418E-04
K	0.02258	5.4	0.1381134
Ca	0.04990	103.4	5.159938
Mg	0.08229	33.3	2.740177
Sum of Cations			8.804115 meq/L
Cl	0.02821	15.4	0.4343815
SO4	0.02082	60.1	1.252083
NO3	0.01613	5.2	8.387096E-02
HCO3	0.01639	388.8	6.37198
Sum of Anions			8.142316 meq/L
Balance (% difference) *			3.905244 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location NE1S
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	18	0.782957
Fe	0.03581	<0.05	<0
Mn	0.0364	0.004	1.456186E-04
K	0.02258	5.2	0.1329981
Ca	0.04990	105.2	5.249763
Mg	0.08229	33.9	2.78955
Sum of Cations			8.955414 meq/L
Cl	0.02821	15	0.4230989
SO4	0.02082	60.4	1.258333
NO3	0.01613	5.19	8.370968E-02
HCO3	0.01639	396	6.48998
Sum of Anions			8.255122 meq/L
Balance (% difference) *			4.068971 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S10S
 Sample Date 1/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	29.3	1.27448
Fe	0.03581	<0.001 2	<0
Mn	0.0364	0.07	2.548325E-03
K	0.02258	6.9	0.1764783
Ca	0.04990	138.1	6.891562
Mg	0.08229	82.7	6.805184
Sum of Cations			15.15025 meq/L
Cl	0.02821	57	1.607776
SO4	0.02082	89	1.854167
NO3	0.01613	34	0.5483871
HCO3	0.01639	537.6	8.810639
Sum of Anions			12.82097 meq/L
Balance (% difference) *			8.327426 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S10S
Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	28.9	1.257081
Fe	0.03581	0.01	0
Mn	0.0364	0.072	2.621134E-03
K	0.02258	6.9	0.1764783
Ca	0.04990	126.9	6.332652
Mg	0.08229	79.8	6.56655
		Sum of Cations	14.33538 meq/L
Cl	0.02821	58.9	1.661368
SO4	0.02082	93.7	1.952083
NO3	0.01613	46.7	0.7532258
HCO3	0.01639	513.6	8.417308
		Sum of Anions	12.78399 meq/L
		Balance (% difference) *	5.720622 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S10S
Sample Date 7/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30.1	1.309278
Fe	0.03581	0.04	0
Mn	0.0364	0.076	2.766753E-03
K	0.02258	7.1	0.1815936
Ca	0.04990	144.4	7.205948
Mg	0.08229	85.1	7.002674
		Sum of Cations	15.70226 meq/L
Cl	0.02821	58.8	1.658548
SO4	0.02082	101	2.104167
NO3	0.01613	42.2	0.6806452
HCO3	0.01639	516	8.45664
		Sum of Anions	12.9 meq/L
Balance (% difference) *			9.797342 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S10S
Sample Date 10/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	31.5	1.370175
Fe	0.03581	<0.05	<0
Mn	0.0364	0.074	2.693944E-03
K	0.02258	6.8	0.1739206
Ca	0.04990	149.9	7.480413
Mg	0.08229	87.5	7.200164
		Sum of Cations	16.22737 meq/L
Cl	0.02821	55.1	1.554183
SO4	0.02082	103	2.145833
NO3	0.01613	44.7	0.7209677
HCO3	0.01639	523.2	8.57464
		Sum of Anions	12.99562 meq/L
Balance (% difference) *			11.0589 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11D
 Sample Date 1/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	35.2	1.531116
Fe	0.03581	0.47	0
Mn	0.0364	0.219	7.972617E-03
K	0.02258	7.3	0.1867089
Ca	0.04990	76.2	3.802585
Mg	0.08229	53.5	4.402386
Sum of Cations			9.930768 meq/L
Cl	0.02821	70	1.974462
SO4	0.02082	30	0.625
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	450	7.374977
Sum of Anions			9.974771 meq/L
Balance (% difference) *		-0.2210567 %	

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	35	1.522416
Fe	0.03581	0.43	0
Mn	0.0364	0.155	5.64272E-03
K	0.02258	7.4	0.1892665
Ca	0.04990	70.1	3.498179
Mg	0.08229	51.9	4.270726
Sum of Cations			9.486231 meq/L
Cl	0.02821	68.7	1.937793
SO4	0.02082	29.9	0.6229167
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	441.6	7.23731
Sum of Anions			9.798351 meq/L
Balance (% difference) *			-1.618497 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11D
 Sample Date 7/7/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	35.7	1.552865
Fe	0.03581	0.56	0
Mn	0.0364	0.166	6.043171E-03
K	0.02258	7	0.1790359
Ca	0.04990	76.5	3.817556
Mg	0.08229	54.3	4.468216
Sum of Cations			10.02372 meq/L
Cl	0.02821	70	1.974462
SO4	0.02082	31	0.6458334
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	441.6	7.23731
Sum of Anions			9.857937 meq/L
Balance (% difference) *			0.8338296 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11D
 Sample Date 10/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	36.9	1.605062
Fe	0.03581	0.54	0
Mn	0.0364	0.155	5.64272E-03
K	0.02258	6.9	0.1764783
Ca	0.04990	80.8	4.032138
Mg	0.08229	55.5	4.566961
Sum of Cations			10.38628 meq/L
Cl	0.02821	67.2	1.895483
SO4	0.02082	30.2	0.6291667
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	440.4	7.217644
Sum of Anions			9.743906 meq/L
Balance (% difference) *			3.191108 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11S
 Sample Date 1/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.3	1.44847
Fe	0.03581	0.14	0
Mn	0.0364	0.184	6.698454E-03
K	0.02258	6.7	0.171363
Ca	0.04990	78.9	3.937323
Mg	0.08229	52.6	4.328327
Sum of Cations			9.892181 meq/L
Cl	0.02821	58	1.635983
SO4	0.02082	29	0.6041667
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	462	7.571643
Sum of Anions			9.812125 meq/L
Balance (% difference) *		0.4062878 %	

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11S
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.2	1.444121
Fe	0.03581	0.12	0
Mn	0.0364	0.183	6.66205E-03
K	0.02258	6.6	0.1688053
Ca	0.04990	73	3.642897
Mg	0.08229	50.6	4.163752
Sum of Cations			9.426237 meq/L
Cl	0.02821	57.2	1.613417
SO4	0.02082	29.2	0.6083333
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	450	7.374977
Sum of Anions			9.59706 meq/L
Balance (% difference) *			-0.8979679 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11S
 Sample Date 7/7/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.4	1.45282
Fe	0.03581	0.14	0
Mn	0.0364	0.194	7.062501E-03
K	0.02258	6.1	0.156017
Ca	0.04990	79	3.942313
Mg	0.08229	52.1	4.287184
Sum of Cations			9.845396 meq/L
Cl	0.02821	58	1.635983
SO4	0.02082	30	0.625
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	447.6	7.335644
Sum of Anions			9.596958 meq/L
Balance (% difference) *			1.277818 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S11S
 Sample Date 10/27/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	35	1.522416
Fe	0.03581	0.14	0
Mn	0.0364	0.215	7.826999E-03
K	0.02258	6.3	0.1611323
Ca	0.04990	82.7	4.126953
Mg	0.08229	53.6	4.410615
Sum of Cations			10.22894 meq/L
Cl	0.02821	55.5	1.565466
SO4	0.02082	29.6	0.6166667
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	460.8	7.551977
Sum of Anions			9.735723 meq/L
Balance (% difference) *			2.470466 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S7
Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27	1.174435
Fe	0.03581	0.14	0
Mn	0.0364	0.032	1.164949E-03
K	0.02258	9.4	0.2404197
Ca	0.04990	38	1.896302
Mg	0.08229	52.7	4.336556
		Sum of Cations	7.648879 meq/L
Cl	0.02821	40	1.128264
SO4	0.02082	12	0.25
NO3	0.01613	0.15	2.419355E-03
HCO3	0.01639	387.6	6.352314
		Sum of Anions	7.732997 meq/L
Balance (% difference) *			-0.5468637 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S7
 Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	26.5	1.152687
Fe	0.03581	0.1	0
Mn	0.0364	0.032	1.164949E-03
K	0.02258	9.2	0.2353043
Ca	0.04990	34.7	1.731623
Mg	0.08229	50.6	4.163752
Sum of Cations			7.284532 meq/L
Cl	0.02821	40.6	1.145188
SO4	0.02082	12.7	0.2645833
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	380.4	6.234314
Sum of Anions			7.644418 meq/L
Balance (% difference) *			-2.41066 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S7
 Sample Date 7/8/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	27.3	1.187485
Fe	0.03581	0.1	0
Mn	0.0364	0.036	1.310567E-03
K	0.02258	9.4	0.2404197
Ca	0.04990	38.2	1.906283
Mg	0.08229	52.4	4.31187
Sum of Cations			7.647367 meq/L
Cl	0.02821	39.5	1.11416
SO4	0.02082	13	0.2708333
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	380.4	6.234314
Sum of Anions			7.61964 meq/L
Balance (% difference) *		0.1816147 %	

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location S7
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	28.7	1.248381
Fe	0.03581	0.19	0
Mn	0.0364	0.006	2.184279E-04
K	0.02258	9	0.230189
Ca	0.04990	40	1.996108
Mg	0.08229	55.1	4.534046
Sum of Cations			8.008943 meq/L
Cl	0.02821	38.7	1.091595
SO4	0.02082	15.6	0.325
NO3	0.01613	0.46	7.419355E-03
HCO3	0.01639	392.4	6.43098
Sum of Anions			7.854995 meq/L
Balance (% difference) *			0.9704264 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1D
 Sample Date 1/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.9	1.474569
Fe	0.03581	0.48	0
Mn	0.0364	0.179	6.516431E-03
K	0.02258	7.9	0.2020548
Ca	0.04990	71.1	3.548081
Mg	0.08229	60.7	4.994857
Sum of Cations			10.22608 meq/L
Cl	0.02821	62	1.748809
SO4	0.02082	26	0.5416667
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	478.8	7.846976
Sum of Anions			10.13778 meq/L
Balance (% difference) *		0.4335866 %	

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1D
Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	33.9	1.474569
Fe	0.03581	0.23	0
Mn	0.0364	0.183	6.66205E-03
K	0.02258	8	0.2046125
Ca	0.04990	65.5	3.268626
Mg	0.08229	58.8	4.838511
Sum of Cations			9.792981 meq/L
Cl	0.02821	63.6	1.793939
SO4	0.02082	26.8	0.5583333
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	464.4	7.610976
Sum of Anions			9.963581 meq/L
Balance (% difference) *			-0.8635103 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1D
 Sample Date 7/6/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	34.2	1.487618
Fe	0.03581	1.18	0
Mn	0.0364	0.204	7.426547E-03
K	0.02258	7.6	0.1943818
Ca	0.04990	71.2	3.553071
Mg	0.08229	61.2	5.036001
Sum of Cations			10.2785 meq/L
Cl	0.02821	64.3	1.813684
SO4	0.02082	27	0.5625
NO3	0.01613	<0.020	<3.322581E-04
HCO3	0.01639	465.6	7.630643
Sum of Anions			10.00716 meq/L
Balance (% difference) *			1.337592 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1D
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	37.2	1.618111
Fe	0.03581	0.71	0
Mn	0.0364	0.215	7.826999E-03
K	0.02258	7.9	0.2020548
Ca	0.04990	76.8	3.832527
Mg	0.08229	65	5.348694
Sum of Cations			11.00921 meq/L
Cl	0.02821	61.9	1.745988
SO4	0.02082	26.8	0.5583333
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	480	7.866642
Sum of Anions			10.17258 meq/L
Balance (% difference) *			3.949791 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1S
 Sample Date 1/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30.5	1.326677
Fe	0.03581	<0.001 2	<0
Mn	0.0364	<9.38E -06	<3.414756E -07
K	0.02258	5.8	0.1483441
Ca	0.04990	73.6	3.672838
Mg	0.08229	47.2	3.883975
Sum of Cations			9.031834 meq/L
Cl	0.02821	58	1.635983
SO4	0.02082	37	0.7708334
NO3	0.01613	1.12	1.806452E- 02
HCO3	0.01639	391.2	6.411314
Sum of Anions			8.836194 meq/L
Balance (% difference) *			1.094914 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1S
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	29.7	1.291879
Fe	0.03581	0.008	0
Mn	0.0364	<9.38E-06	<3.414756E-07
K	0.02258	5.7	0.1457864
Ca	0.04990	66.4	3.313539
Mg	0.08229	44.7	3.678256
Sum of Cations			8.429461 meq/L
Cl	0.02821	59.5	1.678292
SO4	0.02082	37.9	0.7895834
NO3	0.01613	1.13	1.822581E-02
HCO3	0.01639	384	6.293314
Sum of Anions			8.779415 meq/L
Balance (% difference) *			-2.033571 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1S
 Sample Date 7/6/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	31	1.348426
Fe	0.03581	0.08	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	5.5	0.1406711
Ca	0.04990	73.9	3.687809
Mg	0.08229	47.5	3.908661
Sum of Cations			9.08564 meq/L
Cl	0.02821	59.8	1.686754
SO4	0.02082	38.6	0.8041667
NO3	0.01613	1.16	1.870968E-02
HCO3	0.01639	382.8	6.273647
Sum of Anions			8.783278 meq/L
Balance (% difference) *			1.692114 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location SE1S
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	32.7	1.422372
Fe	0.03581	<0.05	<0
Mn	0.0364	<0.001	<3.640465E-05
K	0.02258	5.7	0.1457864
Ca	0.04990	78	3.89241
Mg	0.08229	49.3	4.056778
Sum of Cations			9.517383 meq/L
Cl	0.02821	57.6	1.6247
SO4	0.02082	38.5	0.8020834
NO3	0.01613	1.24	0.02
HCO3	0.01639	396	6.48998
Sum of Anions			8.936764 meq/L
Balance (% difference) *			3.146279 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location STP
Sample Date 1/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	19.2	0.8351541
Fe	0.03581	1.74	0
Mn	0.0364	0.1	3.640464E-03
K	0.02258	12.4	0.3171493
Ca	0.04990	42.8	2.135835
Mg	0.08229	29.4	2.419255
Sum of Cations			5.711035 meq/L
Cl	0.02821	35	0.9872308
SO4	0.02082	13	0.2708333
NO3	0.01613	0.15	2.419355E-03
HCO3	0.01639	284.4	4.660986
Sum of Anions			5.92147 meq/L
Balance (% difference) *			-1.809025 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location STP
 Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	19.1	0.8308043
Fe	0.03581	8.19	0
Mn	0.0364	0.124	4.514175E-03
K	0.02258	11.9	0.304361
Ca	0.04990	36.8	1.836419
Mg	0.08229	28.6	2.353425
Sum of Cations			5.329524 meq/L
Cl	0.02821	34.9	0.9844102
SO4	0.02082	5.8	0.1208333
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	283.2	4.641319
Sum of Anions			5.746895 meq/L
Balance (% difference) *			-3.768102 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location STP
Sample Date 7/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	19.8	0.8612526
Fe	0.03581	10.57	0
Mn	0.0364	0.128	4.659795E-03
K	0.02258	11.6	0.2966881
Ca	0.04990	41.9	2.090923
Mg	0.08229	31.3	2.575602
		Sum of Cations	5.829125 meq/L
Cl	0.02821	34.7	0.9787688
SO4	0.02082	8.5	0.1770833
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	280.8	4.601986
		Sum of Anions	5.758171 meq/L
Balance (% difference) *			0.6123459 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location STP
 Sample Date 10/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	20.7	0.9004005
Fe	0.03581	31.76	0
Mn	0.0364	0.339	1.234117E-02
K	0.02258	11.7	0.2992457
Ca	0.04990	45.9	2.290534
Mg	0.08229	33.1	2.723719
Sum of Cations			6.22624 meq/L
Cl	0.02821	33.1	0.9336382
SO4	0.02082	11	0.2291667
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	286.8	4.700319
Sum of Anions			5.864737 meq/L
Balance (% difference) *			2.989863 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W1D
 Sample Date 1/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	44.3	1.926944
Fe	0.03581	0.34	0
Mn	0.0364	0.02	7.280929E-04
K	0.02258	10.1	0.2583233
Ca	0.04990	60.2	3.004142
Mg	0.08229	74.4	6.122197
Sum of Cations			11.31233 meq/L
Cl	0.02821	67	1.889842
SO4	0.02082	32	0.6666667
NO3	0.01613	0.28	4.516129E-03
HCO3	0.01639	511.2	8.377974
Sum of Anions			10.939 meq/L
Balance (% difference) *			1.677809 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W1D
 Sample Date 4/28/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	42.1	1.831249
Fe	0.03581	0.13	0
Mn	0.0364	0.142	5.16946E-03
K	0.02258	9.8	0.2506503
Ca	0.04990	52	2.59494
Mg	0.08229	67.7	5.57087
Sum of Cations			10.25288 meq/L
Cl	0.02821	66.5	1.875739
SO4	0.02082	32.7	0.68125
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	493.2	8.082974
Sum of Anions			10.64029 meq/L
Balance (% difference) *			-1.854266 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W1D
 Sample Date 7/6/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	43.2	1.879097
Fe	0.03581	0.14	0
Mn	0.0364	0.141	5.133055E-03
K	0.02258	9.5	0.2429773
Ca	0.04990	57.4	2.864415
Mg	0.08229	71	5.842419
Sum of Cations			10.83404 meq/L
Cl	0.02821	67.3	1.898304
SO4	0.02082	33.5	0.6979167
NO3	0.01613	<0.0206	<3.322581E-04
HCO3	0.01639	489.6	8.023974
Sum of Anions			10.62053 meq/L
Balance (% difference) *			0.9951884 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W1D
 Sample Date 10/26/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	45.9	1.99654
Fe	0.03581	0.15	0
Mn	0.0364	0.158	5.751934E-03
K	0.02258	9.5	0.2429773
Ca	0.04990	61.3	3.059035
Mg	0.08229	74.5	6.130426
Sum of Cations			11.43473 meq/L
Cl	0.02821	64.4	1.816505
SO4	0.02082	33.2	0.6916667
NO3	0.01613	<0.1	<1.612903E-03
HCO3	0.01639	490.8	8.043642
Sum of Anions			10.55343 meq/L
Balance (% difference) *			4.008084 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W2S
 Sample Date 1/30/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	31.5	1.370175
Fe	0.03581	0.06	0
Mn	0.0364	0.004	1.456186E-04
K	0.02258	3.9	9.974859E-02
Ca	0.04990	80	3.992215
Mg	0.08229	44	3.620654
Sum of Cations			9.082938 meq/L
Cl	0.02821	66	1.861635
SO4	0.02082	41	0.8541667
NO3	0.01613	3.72	0.06
HCO3	0.01639	452.4	7.41431
Sum of Anions			10.19011 meq/L
Balance (% difference) *			-5.744678 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W2S
 Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	36.9	1.605062
Fe	0.03581	0.03	0
Mn	0.0364	0.002	7.280929E-05
K	0.02258	4.2	0.1074215
Ca	0.04990	82.1	4.097011
Mg	0.08229	47.1	3.875746
Sum of Cations			9.685312 meq/L
Cl	0.02821	44.7	1.260835
SO4	0.02082	53.3	1.110417
NO3	0.01613	3.6	5.806451E-02
HCO3	0.01639	453.6	7.433977
Sum of Anions			9.863293 meq/L
Balance (% difference) *			-0.9104508 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W2S
Sample Date 7/8/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	34.2	1.487618
Fe	0.03581	0.009	0
Mn	0.0364	0.0005	1.820232E-05
K	0.02258	4.1	0.1048639
Ca	0.04990	89.9	4.486252
Mg	0.08229	48.7	4.007406
		Sum of Cations	10.08616 meq/L
Cl	0.02821	43.7	1.232628
SO4	0.02082	53.2	1.108333
NO3	0.01613	3.75	6.048387E-02
HCO3	0.01639	444	7.276644
		Sum of Anions	9.67809 meq/L
Balance (% difference) *			2.064681 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location W2S
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	34.8	1.513717
Fe	0.03581	<0.05	<0
Mn	0.0364	0.001	3.640465E-05
K	0.02258	4.2	0.1074215
Ca	0.04990	93.2	4.650931
Mg	0.08229	50.7	4.171981
Sum of Cations			10.44409 meq/L
Cl	0.02821	42.4	1.19596
SO4	0.02082	53.5	1.114583
NO3	0.01613	3.45	5.564516E-02
HCO3	0.01639	456	7.47331
Sum of Anions			9.839499 meq/L
Balance (% difference) *			2.980679 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location WR1
 Sample Date 1/30/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	28.3	1.230982
Fe	0.03581	<0.001 2	<0
Mn	0.0364	<9.38E -06	<3.414756E -07
K	0.02258	4.9	0.1253251
Ca	0.04990	70.1	3.498179
Mg	0.08229	40	3.291504
Sum of Cations			8.14599 meq/L
Cl	0.02821	54	1.523156
SO4	0.02082	40	0.8333334
NO3	0.01613	1.4	2.258064E- 02
HCO3	0.01639	404.4	6.627646
Sum of Anions			9.006716 meq/L
Balance (% difference) *			-5.018015 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location WR1
 Sample Date 4/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	30.1	1.309278
Fe	0.03581	0.03	0
Mn	0.0364	0.001	3.640465E-05
K	0.02258	5.2	0.1329981
Ca	0.04990	72.1	3.597984
Mg	0.08229	42.9	3.530138
Sum of Cations			8.570435 meq/L
Cl	0.02821	54.5	1.537259
SO4	0.02082	41.3	0.8604167
NO3	0.01613	1.37	2.209677E-02
HCO3	0.01639	398.4	6.529313
Sum of Anions			8.949085 meq/L
Balance (% difference) *			-2.161307 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location WR1
 Sample Date 7/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	31.1	1.352776
Fe	0.03581	0.02	0
Mn	0.0364	0.0008	2.912371E-05
K	0.02258	5.3	0.1355558
Ca	0.04990	80.4	4.012177
Mg	0.08229	45.2	3.719399
Sum of Cations			9.219936 meq/L
Cl	0.02821	53.9	1.520335
SO4	0.02082	41.9	0.8729167
NO3	0.01613	1.39	2.241935E-02
HCO3	0.01639	399.6	6.548979
Sum of Anions			8.964651 meq/L
Balance (% difference) *			1.403855 %

+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

Cation/Anion Balance

Location WR1
 Sample Date 10/29/2015

Major Ions	Conversion Factor +	mg/l	meq/l
Na	0.04350	32.5	1.413672
Fe	0.03581	<0.05	<0
Mn	0.0364	0.003	1.092139E-04
K	0.02258	5.2	0.1329981
Ca	0.04990	83.6	4.171865
Mg	0.08229	46.5	3.826373
Sum of Cations			9.545018 meq/L
Cl	0.02821	51.9	1.463922
SO4	0.02082	41.7	0.86875
NO3	0.01613	1.44	2.322581E-02
HCO3	0.01639	411.6	6.745646
Sum of Anions			9.101543 meq/L
Balance (% difference) *			2.378319 %

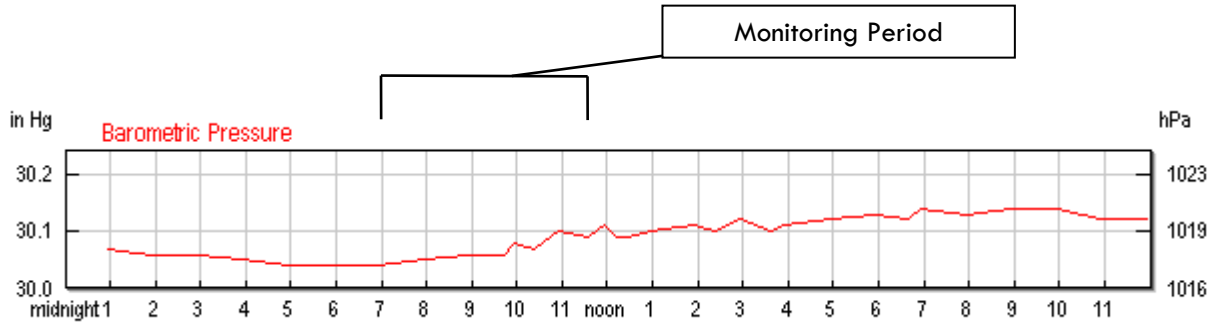
+ mg/l to meq/l

* $[(\text{Total anions} - \text{Total cations}) / (\text{Total anions} + \text{Total cations})] * 100$

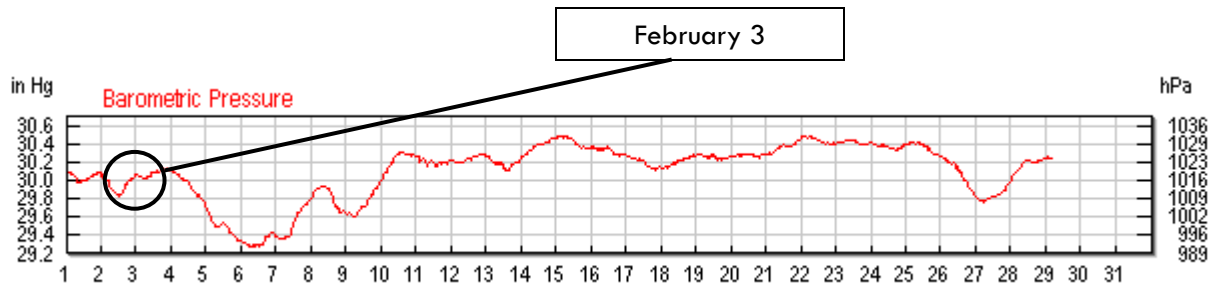
APPENDIX D
2015 BAROMETRIC PRESSURE DATA

**Figure D-1. Barometric Pressure Trends for February 2015
 First Quarter 2015 Data Review
 Coupeville Solid Waste Facility, Island County, Washington**

Barometric Pressure Trend for February 3, 2015



Barometric Pressure Trend for February 2015

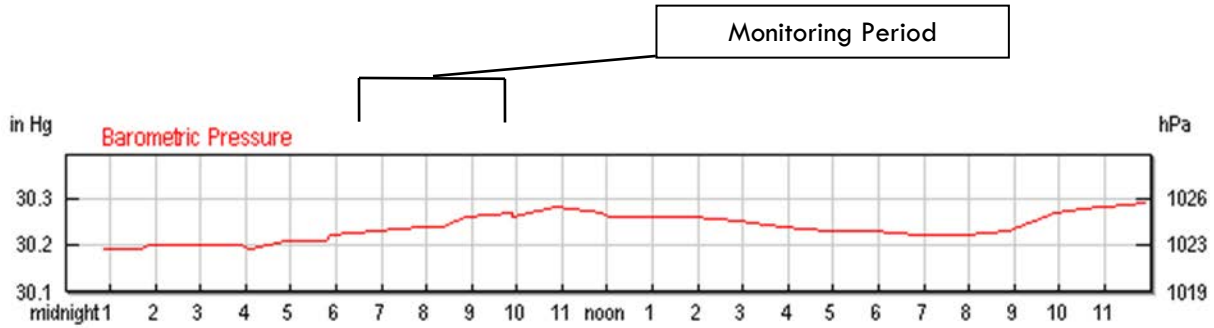


Source: Oak Harbor, Washington

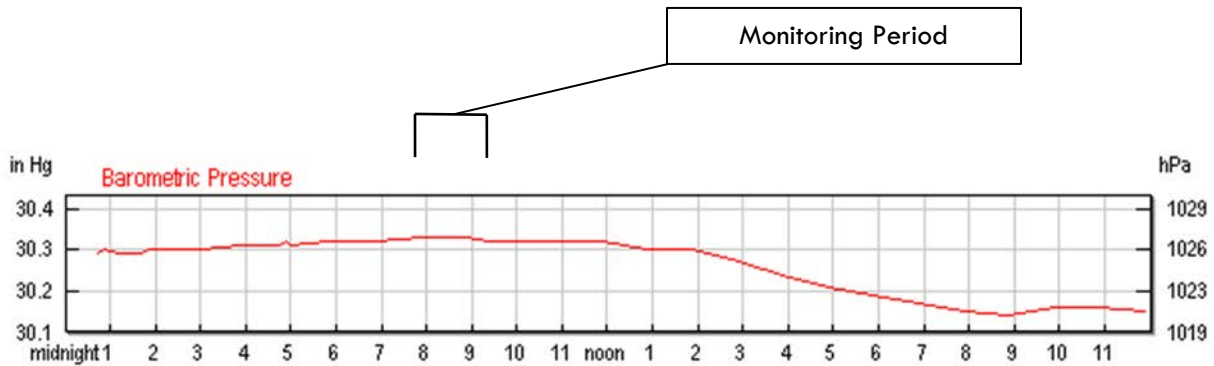
http://www.wunderground.com/history/airport/KNW/2015/2/3/MonthlyHistory.html?req_city=Oak%20Harbor&req_state=WA&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999&MR=1

Figure D-2. Barometric Pressure Trends for April 2015
Second Quarter 2015 Data Review
Coupeville Solid Waste Facility, Island County, Washington

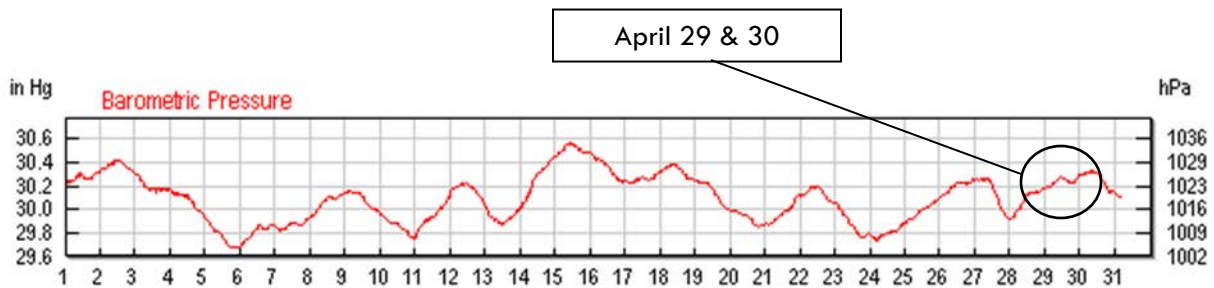
Barometric Pressure Trend for April 29, 2015



Barometric Pressure Trend for April 30, 2015



Barometric Pressure Trend for April 2015

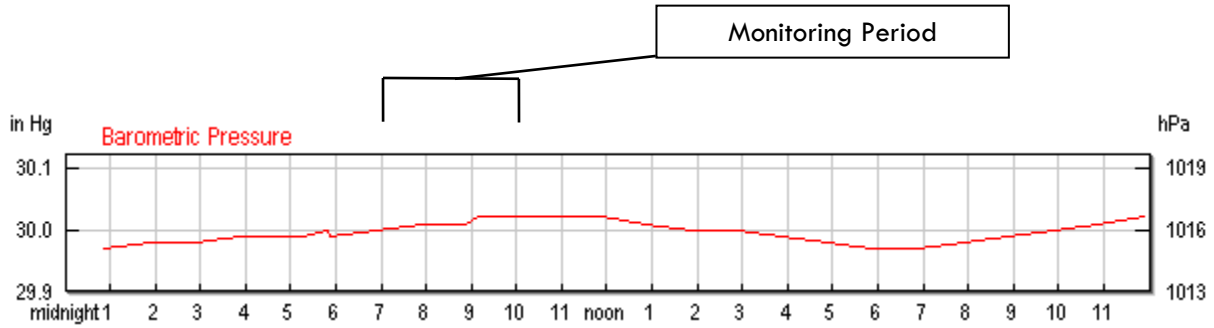


Source: Oak Harbor, Washington

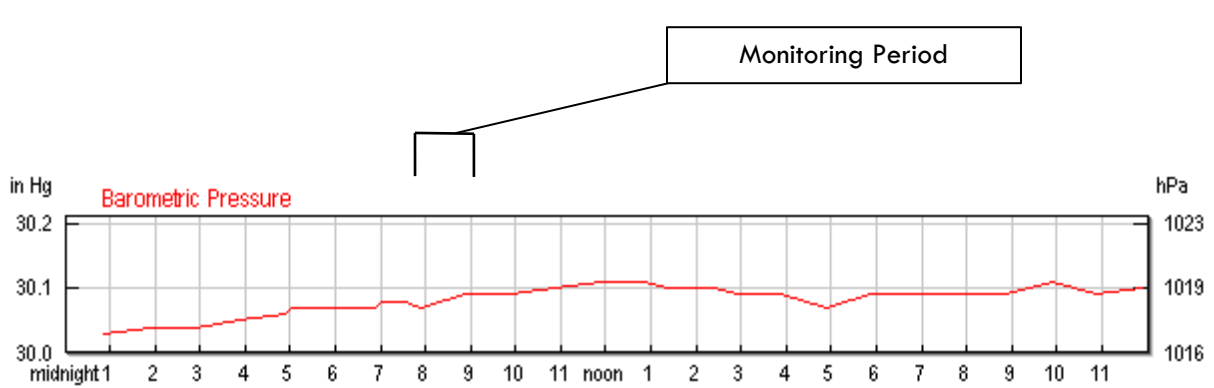
http://www.wunderground.com/history/airport/KPAE/2015/4/30/MonthlyHistory.html?req_city=Everett&req_state=WA&reqdb.zip=98201&reqdb.magic=1&reqdb.wmo=99999&MR=1

Figure D-3. Barometric Pressure Trends for August 2015
Third Quarter 2015 Data Review
Coupeville Solid Waste Facility, Island County, Washington

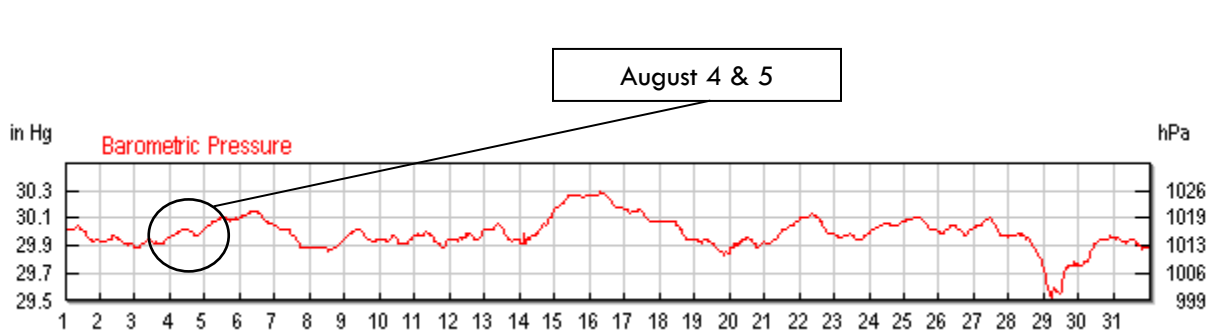
Barometric Pressure Trend for August 4, 2015



Barometric Pressure Trend for August 5, 2015



Barometric Pressure Trend for August 2015

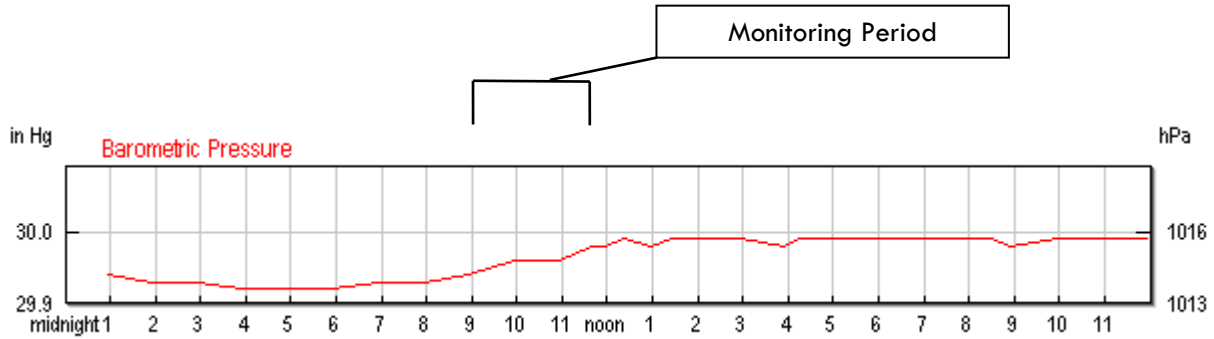


Source: Oak Harbor, Washington

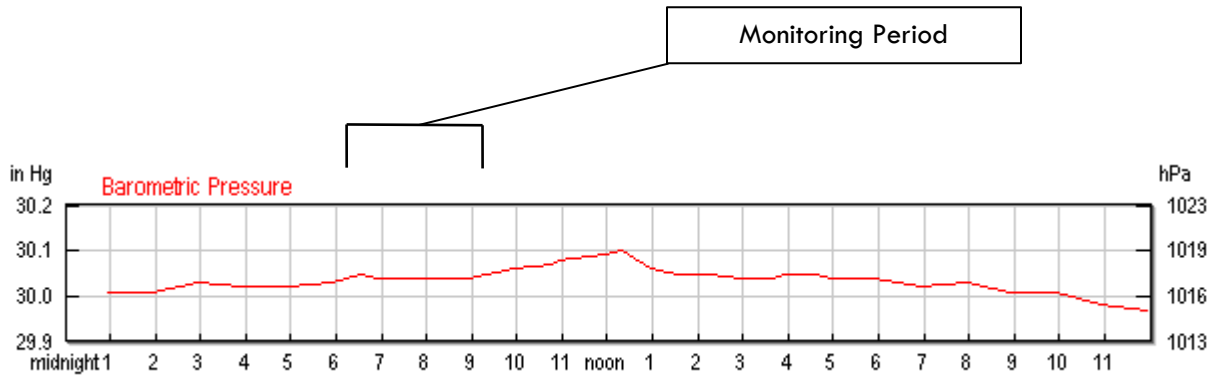
http://www.wunderground.com/history/airport/KPAE/2015/8/5/MonthlyHistory.html?req_city=Everett&req_state=WA&reqdb.zip=98201&reqdb.magic=1&reqdb.wmo=99999

Figure D-4. Barometric Pressure Trends for August 2015
Fourth Quarter 2015 Data Review
Coupeville Solid Waste Facility, Island County, Washington

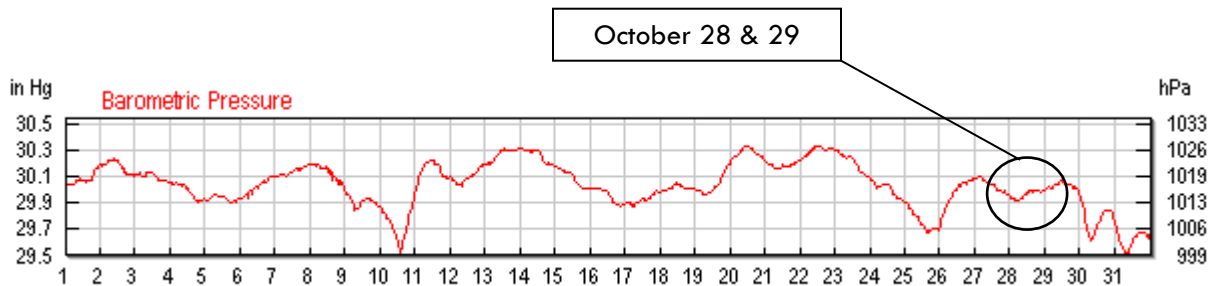
Barometric Pressure Trend for October 28, 2015



Barometric Pressure Trend for October 29, 2015



Barometric Pressure Trend for October 2015



Source: Oak Harbor, Washington

http://www.wunderground.com/history/airport/KNUW/2015/10/28/DailyHistory.html?req_city=Oak+Harbor&req_state=WA&req_statename=&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999